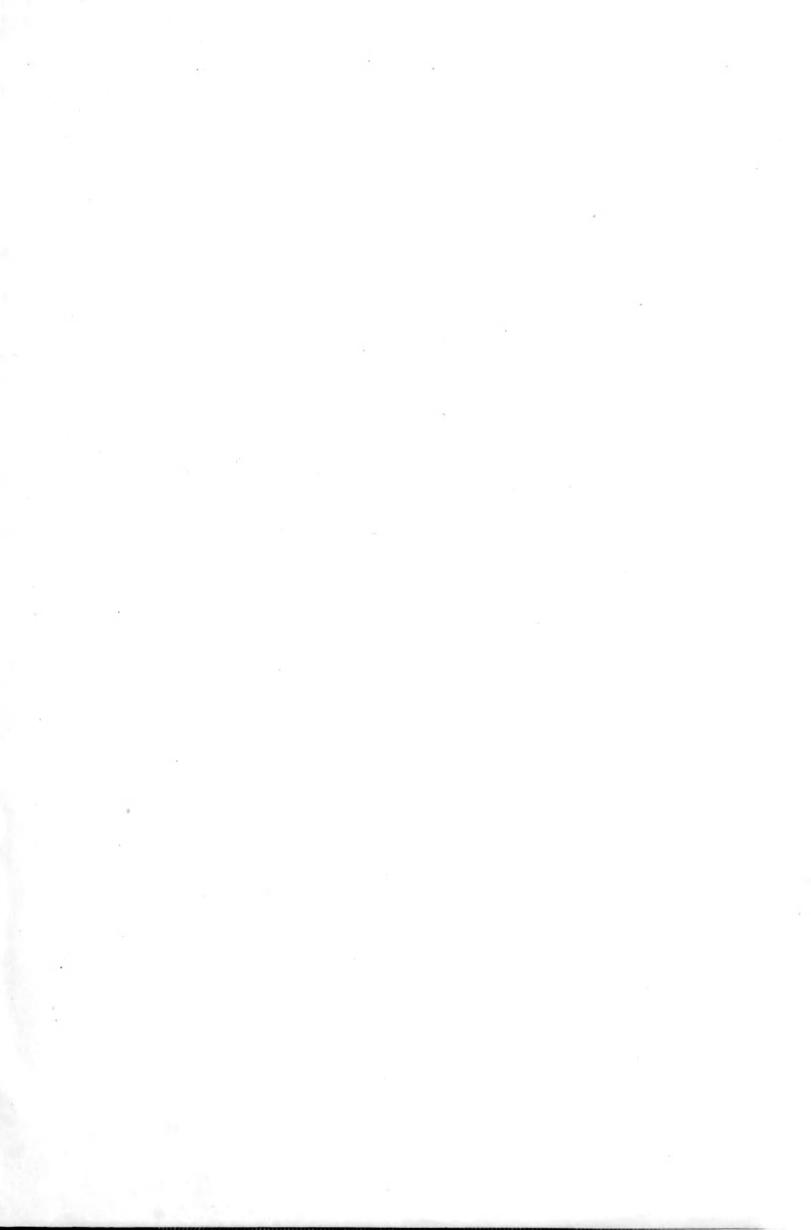


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ILLUSTRATIONS

 \mathbf{OF}

IRON ARCHITECTURE,

MADE BY

THE ARCHITECTURAL IRON WORKS OF THE CITY OF NEW YORK.

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BAKER & GODWIN, PRINTERS,

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IRON ARCHITECTURE:

ITS ORIGIN, ADVANTAGES, AND VARIETY.

THE ARCHITECTURAL IRON WORKS OF THE CITY OF NEW YORK,

The publishers of this volume, in presenting it to the public, consider it not inappropriate to give a brief account of the introduction of Iron Architecture in this country, setting forth, at the same time, some of the reasons for the superiority of Iron as a building material, and enumerating some of the many forms and uses to which it has been already applied.

It is well known that Iron has been used in England and other European countries for interior supports in various kinds of edifices, in the form of columns, beams, etc.; but its introduction for the exterior of buildings is believed to be of purely American invention, and of very recent origin.

The first person who practically used Iron as a building material for the exterior was Daniel D. Badger, the President of the Architectural Iron Works.

In the year 1842, Mr. Badger erected, in the city of Boston, the first structure of Iron ever seen in America. The columns and lintels of the first story were of this material, but the prevailing prejudice against this hold innovation was so great that he was not permitted to engage in the work until he had given an ample guaranty that, if it should not prove a success, he would remove it at his own expense.

All the Iron Buildings in this country have been erected since that period, and owe their existence to that humble introduction.

During the following year, A. L. Johnson, of Baltimore, brought to the notice of Mr. Badger his invention of Rolling Iron Shutters. For the purpose of using these shutters, it became necessary to construct the first stories of stores of Iron pillars and hollow posts. At once the superiority of the "Badger Fronts" (as they were then called), in all buildings where large and attractive show windows were desirable, was universally conceded, prejudice began

to yield, the manufacture increased, and step by step new and more complete and elaborate designs and improvements came into being, until at last, Iron Architecture became legitimately tested and established.

Mr. Badger transferred the manufacture from Boston to New York, but in a short time it became evident, from the increasing demand for his structures, that greater facilities for their preparation were needed, and the foundation was laid for the present extensive works of this Corporation, situated on Thirteenth and Fourteenth Streets, between Avenues B and C.

Previous to Mr. Badger's introduction of Iron as a building material for exteriors, it is well known that the late Cyrus Alger, Esq., of Boston, had, about the year 1830, made plans and contemplated the erection of an Iron Dwelling House, and that he frequently had stated his conviction of its practicability, and expressed his belief that Iron would in time be adopted as the best material for first-class buildings, on account of its durability and of the beautiful forms of which it was capable, and even upon the consideration of its economy.

It is also known that about the time of Mr. Badger's introduction of this species of building in Boston, one William V. Picket published a volume in London, which he styled "A New System of Architecture, founded on the Forms of Nature, and developing the Properties of Metals."

In the preface to that volume he considered "The Capability of Metallic Bodies for the Realization of Peculiar Beauty," and set forth the value of Iron in Civil as well as Naval Architecture, on account of its "strength, durability, non-combustion, economy of space, facility of construction, and general comfort and convenience, combined with cheapness," and stated his belief that these properties would recommend the application of Iron "in the erection of dwellings and other buildings on land."

The allusion to this work of Mr. Picket is made not for the purpose of elucidating the principles of Architecture laid down by him, for his ideas would be deemed crude at the present time, but simply with the design of showing how recently the subject was regarded as so *novel* as to be claimed as a "New System of Architecture," requiring time for its introduction. Mr. Picket's work was purely theoretical, and we claim, therefore, that for the use of Iron in a practical form the world is largely indebted to Mr. Badger, who may justly be regarded as the inventor and pioneer of Iron Architecture in this country.

That a great change has been wrought in public opinion on this subject since the year 1842 will be evident when the fact is stated that it was with extreme difficulty that owners of property could, at the outset, be induced to employ Iron; the prevalent opinion being that it could not have sufficient strength to support a superstructure unless it was cast solid, and quite as cumbrous as stone, in which case its cost would have been an insuperable objection.

But, by the perseverance of years, this objection and all others were overcome, all prejudices were removed, and to day the practicability of the use of Iron for all kinds of structures is no longer doubted, even by those who were once the most skeptical.

Among those properties of Iron which commend it to more general use as a building material we may mention the following:

STRENGTH.

The established superiority of Iron in this regard now requires no argument. We may safely affirm that no substance, available for building purposes, has such closeness of texture, or is equally capable of resisting immense pressure.

The great strength of Iron secures another requisite in building, namely:

LIGHTNESS OF STRUCTURE.

A light and ornamental edifice of Iron may safely be substituted for the cumbrous structures of other substances, and sufficient strength be secured without the exclusion of the light—which is often highly desirable both for mercantile and mechanical purposes.

Combined with this we may mention

FACILITY OF ERECTION.

Nearly all the work of an Iron structure can be previously prepared and fitted in the foundry and finishing departments, and thence transferred to the place of erection and put together with rapidity and security. In some kinds of structures the facility of erection approaches the incredible.

As has been already mentioned, Iron is capable of all forms of

ARCHITECTURAL BEAUTY.

It must be evident that whatever architectural forms can be carved or wrought in wood or stone, or other materials, can also be faithfully reproduced in iron. Besides, iron is capable of finer sharpness of outline, and more elaborate ornamentation and finish; and it may be added that it is not so liable to disintegration, by exposure to the elements, as other substances.

To this capability of beauty we may add that of

ECONOMY OR CHEAPNESS.

The cost of highly-wrought and beautiful forms in stone or marble, executed with the chisel, is often fatal to their use; but they may be executed in Iron at a comparatively small outlay, and thus placed within the reach of those who desire to gratify their own love of art, or cultivate the public taste.

It may also be stated that no other material is so valuable for rebuilding, as Iron always has a market value, and may be recast into new forms, and adapted to new uses. Those who study economy in building should have regard to the permanence of the structure and intrinsic value of the materials, as well as the prime cost of erection.

In an eminent degree Iron possesses the property of

2

DURABILITY.

It may be safely affirmed that no material employed for building has such indestructibility as Iron, and none can so successfully resist the wasting influences of the elements. It is also invaluable because of its

INCOMBUSTIBILITY.

As a resistant of fire, Iron is unequaled. Wherever it is used, the cost of insurance against fire will be materially reduced; and it must be evident that by its use a building may be made absolutely fire-proof. We shall have a better claim to be considered a civilized people when we protect ourselves from the ravages of fire as well as lightning, and erect private and public buildings which are incombustible.

Destructive conflagrations in crowded cities are often arrested by fire-proof buildings, which serve as absolute barriers to the farther progress of the devouring element.

To the catalogue of the excellencies of Iron as a building material may be added its capability of

RENOVATION.

The durability of an Iron structure is such that if it becomes defaced by exposure or age, it can easily be restored to its pristine beauty by a coating of paint, and, on account of its non-absorbent surface, at less expense than structures of wood or other materials. The color also may from time to time be changed at the will of the owner.

THE ILLUSTRATIONS contained in the present volume will show the manifold purposes for which Iron has been applied as a building material, and also exhibit the high degree of architectural beauty which has already been attained.

Special reference to the numerous plates will show that a large number of

FIRST-CLASS STORES

In the cities of New York, Brooklyn, Philadelphia, Boston, Baltimore, New Orleans, Charleston, Mobile, Memphis, Chicago, and in fact in all large cities and towns, have their fronts built of Iron, ornamented in the most elaborate and varied styles of Architecture—the doors and windows of which are protected by the universally approved

FIRE AND BURGLAR-PROOF IRON ROLLING SHUTTERS.

These patented Shutters have been extensively used and thoroughly tested for a period of years throughout the country.

The style of Shutters made and introduced by the Architectural Iron Works is considered

superior to any other in point of construction as well as price. The gearing is simple, durable, and not liable to derangement. Reference to Plates Nos. 29, 69, and 71, will show the construction and finish in detail.

It may be added that the demand for these Shutters has been so great that this Company is provided with the most complete and elaborate machinery for their speedy manufacture.

Special attention is called to the use of iron for the construction of completely fire-proof buildings to be occupied as

MANUFACTORIES,

In which strength, solidity, light, and ornament may be combined, and where the necessity of insurance against fire may be obviated. In all large cities such buildings should abound.

On pages 4, 5, and 6, will be found representations of a building of this class, situated on Mott Street, between Broome and Spring Streets, New York. This building, which was erected for I. M. Singer & Co., is six stories in height, with basement and cellar, and is throughout completely fire-proof.

An inspection of this building is needful to give an adequate idea of the solidity of its structure, and of its peculiar fitness for a manufactory.

The protection of life and property afforded by buildings of this class is alone a sufficient warrant for the slightly increased cost of their construction.

Iron has also been successfully used in the erection of

GRAIN WAREHOUSES.

The amount of the annual losses of grain and warehouse property by fire almost transcends belief. The ordinary storehouses are built wholly or in part of wood, and from certain well-known causes are peculiarly combustible, and liable to rapid decay. Such liabilities are entirely removed by the use of Iron.

The first Iron building of this character was erected in Brooklyn, for "The United States Warehousing Company."

The diagrams on pages 60, 61, and 62 will show that this structure was intended to be used for elevating, transferring, and storing grain, and protecting it against fire.

In the building referred to, the Bins, which are cylindrical, are made like boilers, of riveted plate iron; indeed, the entire structure is absolutely fire-proof and indestructible. Besides these advantages, the grain is secured from the ravages of animals and insects, and also protected from heating by arrangements made for its drying and ventilation. This single feature of ventilation is invaluable, as it will save thousands of bushels of grain which for the want of proper cooling would have to be sent to the malter's at ruinous prices. The construction of Grain Bins of this character is secured to this Corporation by letters patent.

By reference to page 12, it will be seen that Iron has been successfully used for the building of

ARSENALS

For storing Arms and Ammunition. The first building of this kind was erected in West Troy, in 1858. Safety and durability were the considerations which led to its construction, and it may safely be added that it is admirably adapted for its purposes, and is considered as having secured the objects contemplated in its erection.

IRON FERRY HOUSES

Have also been constructed by the Architectural Iron Works for the Union Ferry Company of New York and Brooklyn. These structures are an ornament to the city, and supply the place of the unsightly wooden buildings formerly occupying their position, which were liable to rapid decay and destruction by fire.

IRON OIL TANKS,

Of large capacity, capable of holding hundreds of barrels each, have been constructed for the Phenix Warehousing Company of New York, for the storage of Petroleum.

These tanks, of which many are placed under one roof, are designed to prevent loss by leakage and evaporation, and to protect the oil from the perils of fire. It is believed that they are admirably fitted for all the purposes for which they were constructed.

We would call attention to the combination of

CAST AND WROUGHT-IRON BEAMS,

As shown in Plate LXIII. The great strength and elasticity of these Beams consist in their peculiar shape, the necessary quantity of iron being in the proper place, and the Wrought-Iron Tension-rod in the best position to sustain heavy burdens.

This is believed to be the only Beam which prevents all oscillation or trembling of the floors in buildings used for heavy or rapid-running machinery.

A recent and most successful use of Iron has been made by the "Iron Blind Company," in the construction of

VENETIAN BLINDS,

Both for the outside and inside of windows.

These Blinds present a much lighter appearance to the eye than those made of wood, over which they possess several important advantages. When opened, they admit more light than wooden Venetian Blinds; when closed, they exclude the light more perfectly; they also occupy less space, are more durable, and are proof against fire. They are not liable to warpage or shrinkage, and hence will remain for a long time in working order. They are highly approved by all who have seen or used them. This Corporation has the sole right to manufacture them.

In this connection may be mentioned the use of Iron in the construction of

WINDOW SASHES,

Which, while scarcely heavier than wood (being hollow), possess the superior advantages of beauty, durability, and incombustibility. These Sashes are especially adapted to warm climates.

It would occupy a large space to enumerate all the uses to which Iron has been applied by the Architectural Iron Works, but the following may be added to those already mentioned, namely: Bridges, Roofs, Domes, Railings, Verandahs, Balustrades, Cornices, Stairways, Columns, Capitals and Arches, Window Lintels and Sills, Consoles, Brackets and Rosettes, Urns, Door and Window Guards, Lamp, Awning and Horse Posts, Patent Lights and Iron Sidewalks.

Reference to the Table of Contents will show numerous uses besides those already enumerated.

This volume is published at a great cost, for the twofold purpose of supplying Architects and others with plans and details for the construction of the various parts and connections of Architectural Iron Structures, and as an advertising medium for the Architectural Iron Works; and it is designed to be presented to those who may be profited by its study, and aid in the object of extending the business of the publishers, and improving the public taste.



ILLUSTRATIONS.

- PLATE I. Frontispiece, showing, through the Arch, the Office Building of the Architectural Iron Works, 42 Duane Street, New York.
 - II. View of the Architectural Iron Works, seen from Fourteenth Street and Avenue C, New York, as they appeared before the destruction by fire of the main building in the spring of 1864. These works have since been rebuilt, enlarged, and greatly improved.
 - III. Elevation of front of building corner of Broadway and Broome Streets, New York, built for and occupied by E. V. Haughwout & Co.
 - IV. Elevation of front of building erected for I. M. Singer & Co., Sewing Machine Manufacturers, on Mott Street, between Spring and Broome Streets, New York, as a manufactory for their machines.

This building is perfectly fire-proof; the roof, the front and rear, including sashes, shutters, &c., being entirely of iron. The floors are supported upon iron columns and girders, with iron beams and brick arches. The stairs, &c., are of iron, as shown upon a section of this building, Plate VI.

- V. Section and elevation of Piers, Cornice and Arch. Also, elevation of Pedestal, Capital and Base. (Singer Building, Plate IV.)
- VI. Section of Singer Building (see Plate IV) showing Columns, Girders, Beams, Stairs, Roofs, Side-walks, etc.
- VII. Elevation of front of Cary Building on Chambers Street, New York, and of duplicate front on Reade Street. All the openings in both fronts are enclosed with patent Rolling Iron Shutters. Built for W. H. Cary. Occupied by Cary, Howard and Sanger.
- VIII. No. 117. Elevation of Capital, Cornice, Pedestal and Panel. (See Plate XV., No. 8.)

 No. 118. Elevation and section of Piers, Panels, Arches, Cornices, Bases, Capitals, etc. (Cary Building, see Plate VII.)
 - IX. Elevation of Gilsey Building, corner of Broadway and Cortlandt Street, New York. Built for P. Gilsey. Occupied in first story for stores, in upper stories for offices.
 - X. Cornices. No. 84. First-story Cornice of Gilsey Building.
 - No. 85. Third-story Cornice of Gilsey Building.

 PLATE III.
 - No. 58. First, Second, Third and Fourth-story Cornices of Haughwout Building.
 - No. 97. Upper Cornice of Haughwout Building.
 - Nos. 17, 90 and 91. Cornices over First-story Posts of Haughwout Building.
 - XI. Elevation of front of Sales Room of the Grover & Baker Sewing Machine Company, Broadway, New York. Built for O. B. Potter.

PLATE XII. Front and end elevation and section of Iron Store House, erected for the U. S. Government at Watervliet Arsenal, West Troy, N. Y.

This building is entirely of iron above the foundation.

- XIII. Section and elevation of Pier and Arch, and section of Cornice and Arch, Iron Store House, Watervliet Arsenal. (See Plate XII.)
- XIV. Elevation and section through elevation of Iron Front for Dwelling-house.
- XV. No. 7. Elevation of front erected on Walker Street, New York, for Joseph Lee.

No. 8. Elevation of front erected on Broadway, New York, for Peter Goelet.

XVI. No. 111, showing Balustrade and Pedestal.

No. 94,

No. 92. Cornice and Frieze with Balustrade and Pedestal above.

No. 86. Top Cornice, showing Consoles, Panel Ornaments, etc.

No. 82. Ordinary First-story Cornice.

- XVII. Nos. 4, 5 and 6. Elevation of Four-story Fronts, showing the adaptation of iron to different styles of architecture.
- XVIII. Nos. 100, 101, 102 and 103. Cornices for First-story Fronts.
 - XIX. Elevation of front of a portion of building built for Alex. Lloyd and J. Q. Jones, Chicago, Ill.
 - XX. No. 87. Top Cornice, Halsey Building, Brooklyn, N. Y. (See Plate LII.)

No. 93. Top Cornice, Society Library, University Place, New York.

Nos. 61, 62, 83, 89 and 99, ordinary small Cornices.

- XXI. Elevation of front, erected in Pearl Street, Albany, N. Y., for J. Kidd.
- XXII. Elevation of front, erected for W. H. Hume, No. 130 Broadway, N. Y.
- XXIII. No. 95. Top Cornice for Block on Lake Street, Chicago, Illinois.

No. 96. Top Cornice, No. 130 Broadway. (See Plate XXII.)

- XXIV. No. 63. First-story Front, with Lintel and Cornice; similar to many erected in New York. No. 64. First-story Balustrade, corner Twenty-first Street and Broadway, New York.
 - XXV. No. 108. Elevation and section of Arch and Pier (see Plate LVIII.), third and fifth stories. No. 109. Elevation and section of Arch and Pier (see Plate XC.), first story.
- XXVI. Elevation of front erected for J. McGregor, Newark, N. J.
- XXVII. No. 114. Arches, Keys and Arch Ornaments (see Plate LXX.) second and fourth stories.

 No. 107. " " (see Plate XC.) " " "
- XXVIII. No. 62. Elevation of part of fronts erected on Theatre Alley, Boston, for Charles Merriam and others.
 - No. 65. Elevation of front erected for R. Nichols, Peterboro, C. W.
 - No. 66. Elevation of front erected for Solomon & Hart, Broadway, near Franklin St., N. Y.
 - XXIX. Showing Rolling Iron Shutter and fixtures prepared to build in brick walls. A A A A, Architrave, Lintel, Sill, and section of Sill outside; B, Shaft; C C, Shutter Grooves; E E, Weight Chain Wheel; FF and G, endless Chain Wheel; H, end of Crank Stand; I, side view of Crank Stand; J, Crank; K, Balance Weight; M M, section of Shutter Groove; N, position of Shutter Groove when in place; PP, position of Endless Chain; R R R, Couplings on Shafts to which Shutters are bolted; S, Shutter rolled down.
 - XXX. Elevation of a building adapted to the use of Associations and Lodges; very substantial.

XXXI. Elevations and Plans of First-story Fronts.

Nos. 50 and 51. Arranged for two stores, with Rolling Iron Shutters.

No. 52. " one " " "

No. 53. Arranged for two stores, without Rolling Iron Shutters.

No. 54. " one store, with " " Iron Sash, &c.

No. 55. " passage to lofts, all enclosed with Rolling Iron Shutters.

These designs are on the scale of one-eighth of an inch to the foot, and are intended for 25-feet lots. They can be adapted to any sized lot.

XXXII. No. 98. Cornice, with Buttress and Corbel.

No. 50. Top Cornice. (See Plate IX, Gilsey Building.)

No. 112. Arch and Key, with Panel, &c. (See Plate LIV.)

No. 115. Tracery Arch Ornament. (See Plate LVIII.)

XXXIII. Elevation of First-story Front, with Basement Posts and Piers, with Section and Plan of Sidewalk, showing Beams, Girders, &c.

XXXIV. Elevation and Section of Two-story Fronts.

XXXV. No. 33. Elevation of two stories of store 98 Broadway, New York, showing Rolling Iron Shutters in first story, and Panels on face of doors.

No. 34. Elevation of first story Nos. 117 and 119 Nassau Street, New York, showing Entrance to Lofts.

XXXVI. Designs for Four-story Fronts.

No. 42, with Pilasters and Arches.

No. 48, with Columns and Antaes and Arches.

No. 46, with Pilasters and Antaes with Arches.

All arranged with or without Rolling Iron Shutters.

XXXVII. No. 17. Elevation of two stories, with Stone or Brick above; Posts, &c., arranged for Inside Folding Shutters.

No 18. Elevation of Two-story Front, erected in Augusta, Ga., showing Balustrade in second story.

XXXVIII. No. 9. Elevation of Five-story Front, erected for R. A. & G. H. Witthaus, No. 38 Barelay Street, New York.

No. 10. Elevation of Five-story Front, in Gothic Architecture.

XXXIX. No. 106. Elevation and section of Arch, with Key elevation and section of Pier under Arch. [See Plate XC.

No. 110. Elevation of section of Arch with Key. (See Plate XL, No. 67.)

XL. No. 67. Elevation of First-story Front, erected in Congress Street, Boston.

No. 68. Elevation of First-story Front, No. 267 Bowery, New York.

XLI. Window Lintels. For sizes, &c., see Catalogue of Details.

XLII. " " " " " " " " " "

4

- XLIII. No. 1. Awning Post and Rod. Any height of Post or length of Rod. Window Lintel and Sill with Architrave for any sized opening.
- XLIV. Nos. 144 and 145. Window Lintels for any sized opening.
 - No. 126. Ionic Capital and Base.
 - No. 128. Lamp Post with Pedestal.
 - No. 104. Column Base, Pedestal, Window Panel and Sill.
 - No. 88. Cornice with Dentils, Frieze with Architrave, showing Pedestal and Panel above.
 - XLV. No. 76. Window Lintel for double openings, with Elliptic Heads connected with Architraves, and showing Architraves full length.
 - No. 77. Window Lintel for circular head opening, with Architrave.
 - No. 81. Window Lintel for double openings, with semi-circular heads, with plain Architraves.
 - No. 31. Window Lintel for semi-circular Head with Corbels.
 - Nos. 78 and 79. Window Sills for any sized openings.
 - No. 80. Window Sill with Corbels for any sized openings.
 - No. 30. Window Sill for double windows.
- XLVI. Elevation of Front of Clay Building, erected in Memphis, Tenn.
- XLVII. Consoles and Brackets. Nine different styles, various dimensions. Nos. 38, 32, 47, 34, 67, 53, 46, 8, 35.
- XLVIII. Consoles and Brackets. Seven different styles, various dimensions.

Nos. 6, 7, 275, 276, 277, 279, 280.

Corbels. Five different styles, various dimensions.

Nos. 28, 281, 282, 283, 284.

For sizes of Consoles, Brackets and Corbels, see Catalogue of Details. No. 278, Urn.

XLIX. Elevations and Sections of Columns and Capitals.

No. 22. Corinthian Capital and Base.

Nos. 23, 24, 27, 18, 19, 20, 21. Composite Capitals for Pilasters.

Nos. 25, 26. Corinthian Capitals for Pilasters.

- L. No. 146. Horn of Plenty Capital, with Corinthian Base.
 - No. 147. Composite Capital, with Corinthian Base.
 - No. 148. Gothic Capital and Base.
- LI. No. 157. Corinthian Column, with Capital and Base.
 - No. 158. Composite " " " "
 - No. 159. Ionic " " " "
 - No. 160. Doric " " "
 - No. 161. Tuscan " " " "

For sizes, &c., of Columns, &c., see Catalogue of Details.

- LII. Elevation and section of Halsey Building, Brooklyn, N. Y.
- LIII. Vault Beams of various styles. Elevations and Sections.
- LIV. Elevation of portion of Front, erected for A. Robbins, Chicago, Ill.
- LV. Elevation, Section and Plan for House Front, showing Stoop and Portico.

- LVI. Patent Metallic Window Blinds, Burglar and Fire-proof.

 LVII. Lattice Panels for Store Fronts, also appropriate for Railings, &c.
- LVIII. Elevation and Section of Store Front, erected for estate of J. C. Gray, Boston.
 - LIX. Elevation of Store Front, erected for H. H. Hunnewell, Boston.
 - LX. Elevation of Grain Building, similar to those erected in Brooklyn, N. Y., and Philadelphia.
 - LXI. Horizontal section of Grain Bins, showing Tie Rods at bottom of Bins.
- LXII. Section of Grain Building through Bins, showing Bins, Brick Arches, Columns, Tie Rods, Foundation, &c.
- LXIII. Tension-Rod Girders.
- LXIV. No. 24. Elevation of first story of Laura Keene's Theatre, New York.

No. 25. " Chestnut Street, near Fifth, Philadelphia.

No. 26. " " Tiffany & Co., 550 Broadway, New York.

- LXV. Elevation for Store or Banking-House Front.
- LXVI. Railroad Track and Pavement, for Horse Railroads.
- LXVII. Elevation for Banking-House or Office Building.
- LXVIII. Elevation of Store Front, erected for Billings & Co., Halifax, N. S. Show-window in Center, and Mirror on sides, showing Rolling Iron Shutters, and movable small door to enter store.
- LXIX. No. 149. Shows Rolling Iron Shutter under Lintel, arranged to run down to Panel of Door.
 - No. 150. Shows Rolling Iron Shutter behind Lintel, arranged to close down upon Iron Dwarf Doors.

Both show the finish of the back of Corinthian Columns.

- LXX. Elevation of Front of Building erected for F. Tuttle & others, Chicago, Ill.
- LXXI. Details of Rolling Iron Shutters, as adapted to square Pilasters, &c.
 - A. Face of Shutter rolled down.
 - B. Side of Pilaster, showing Dwarf-door C, folded back, Shutter Groove, position of Shaft, &c.
 - D. Section of Post, showing Weight and Weight Wheels, and Endless or Winding Chain and Wheel; Crank and Crank Stand.
 - E. Section of Shutter one-quarter full size, with manner of attaching to Shaft.
- LXXII. Consoles, Brackets and Rosettes. For dimensions, see Catalogue of Details.
- LXXIII. Sugar Sheds erected at Havana, Cuba:

A, Section; B, End Elevation; C, Front Elevation; D, Elevation on larger scale; E, Foot of Column, showing manner of securing to Wharf; F, Gutter Frieze and Column Cap.

LXXIV. Elevation of Store Front, erected for Billings & Co., Halifax, N. S.

LXXV. " " W. J. Coleman, Halifax, N. S.

LXXVI. " J. B. Bennett, Halifax, N. S.

LXXVII. Door Guards. For sizes, see Catalogue of Details.

LXXVIII. Elevation of Store Front, erected for Duffries & Co., Halifax, N. S.

LXXIX. " " W. G. Coombs, Halifax, N. S.

LXXX. Urns, and Pedestal Ornaments. For sizes, &c., see Catalogue of Details.

LXXXI. Widow Guards, Awning Posts, Lamp Posts, Horse Posts, &c.; see Catalogue of Details

LXXXII. Door Sills, Frets or Risers, Horse Blocks, Winding Stairs, &c.; see Catalogue of Details.

LXXXIII. Elevation and Section of Sidewalk, &c., showing Basement, Patent Light Platform, Iron Sidewalk, and Extension under street.

LXXXIV. Design for a Single Track Railroad Bridge of Cast Iron, 80 feet span.

LXXXV. " " " " " 50 "

LXXXVI. " " constructed of a combination of Wrought and Cast Iron, 40 feet span.

LXXXVII. " " of Wrought Iron, Lattice principle, 67 feet span.

LXXXVIII. Ferry House, erected for Dr. Thomas Rainey, Rio de Janeiro, Brazil.

LXXXIX. Balustrades, &c.

XC. Elevation of Store Front, erected for O. B. Potter, Broadway, New York.

XCI. Door Guards, &c.

XCII. Elevation of Store Front, erected for John Mack, Franklin Street, New York.

XCIII. Iron Railings.

XCIV. Iron Railings.

XCV. Iron Railings.

XCVI. Cemetery Iron Railings.

XCVII. Railings for Balustrades and Stoops.

XCVIII. Gates, Gate Posts, and other Posts.

XCIX. Gates, Gate Posts, and other Posts.

C. Verandah and Verandah Railings.

CI. Verandah and Verandah Railings.

CII. Elevation of Store Front, erected for S. H. & J. E. Condict, White Street, New York.

CATALOGUE OF DETAILS.

Article. Arch	Plate. V.	No. 119	Base of Column.				Plate. V.	No. 119
(4	VIII.						VIII.	
"	XIII.						XLIX.	22
"	XXV.						44	24
4	11	109					L.	146
u	XXVII.						"	147
"	"	114	**				46	148
(1	XXXII.						LI.	157
"	XXXIX.						"	158
4	"	110					"	159
		110	'		• • • • • • • • • • • • • • •	* * * * *		100
Also, Arches of various other sizes and style	s, semi-circ	ular,	Also, a g	reat variety o	f styles and size	g.		
segment and pointed.			Beam, Vault, ar	y desired leng	gth		LIII.	29
			u u	"			16	133
Arch ornaments	XXV.		44 44	"			"	134
"	XXVII.			"	*********		41	135
"	XXXII.	115	"	44			66	136
			"	,,			"	137
Also other sizes and styles.			Blinds, Pat. In	on, Venetian,	Inside and Or	utside,		
	*** ***		Fire proof				LVI.	
Architrave Window	XLIII.		Blocking Cours	e			XVIII.	101
" "	XLV.		"	,,,,			XX.	89
" "	""	77 81	66		Height,	Proj.	XLIV.	88
Awning Posts and Rods	XLIII.	1	Bracket			.8	LXXII.	9
	LXXXI.	173				$.4\frac{1}{2}$	44	10
ı	**	174	"		$1.1\frac{1}{2}$.10	44	11
Balcony	XVI.	94			_	1.1	44	12
4	"	111				1.21	"	12
"	XIV.	43				.10 -	44	12
4	XXIV.	64				1.8	"	13
"	XXXVII.	18				1.8	££	14
Baluster	XVI.					1.3	11	15
"	"	94			-	1.1	"	16
u	"	111			4.2		"	54
			Buttress, Block				XVIII.	
Alle edhereler - levele			muness, Dioca				XXXII.	
Also, other sizes and styles.			"				XXXV.	
Polyotrodo	XVI.	92	"				LXIV.	
Balustrade	A V 1.	92	46 44				LXVIII.	
,			" "				LXXV.	
***************************************		. 111					LXXVI.	
	LXXXIX.		"	*****				
	"	200						
	"	201				• • • • •	имм1м.	41
** ************************************	.,	202	Many of	her styles, all	sizes.			

	Diam. of Height o	ıf			Plate.	No.
C. S. I. Thuis	neck. cap.	Plate.	No.	Capital, Ionic	LI	158
Capital, Dorie					XLIV	126
	H1 00			" Tuscan	LI	161
(0 -			" Aldrich	XLIX	19
((((" Eagle	"	20
" Composite		LI.	158	" Foliated	44	18
" Corinthian, for Colum				" "	44	23
	Height in-			" Gothie		21
Diam. of Col. at base.	Diam. of cluding aba- neck. cus & cover.	37 F T 37		" "Diameter. Height.	L	148
4	$3\frac{1}{2}$ $7\frac{1}{4}$	XLIX "	22	" Horn of Plentv $10\frac{3}{4}$ $1.4\frac{1}{4}$	"	146
5	$4\frac{1}{2}$ 9		46	" " $1.1\frac{1}{8}$ 1.7	41	146
$\frac{6}{7}$	$4\frac{7}{8}$ 9 $5\frac{7}{8}$ 11	64	"	" Stewart's	"	147
8	$6\frac{3}{4}$ $11\frac{3}{4}$	"	44			
8	$6\frac{7}{8}$ 11	46	44	Also, other designs of Capitals.		
8	$7\frac{1}{4}$ 1 ft. 3	"	44			
9	$7\frac{1}{4}$ 1.	"	"	Column	L.	146
10	$8\frac{1}{4}$ 1.	"	"	"	"	147
11	$8\frac{7}{8}$ 1.3 $\frac{1}{4}$	ш	"	4	"	148
11	$9\frac{3}{16}$ 1.2 $\frac{3}{4}$	61	"	"	LI.	157
1 ft.	$11\frac{1}{8}$ $1.3\frac{1}{4}$	"	"		"	158
$1.0\frac{1}{2}$	$10 1.2\frac{1}{2}$		44	α.	"	159
$1.1\frac{1}{2}$	$10\frac{3}{4}$ $1.4\frac{1}{4}$	44	"	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	"	160
1.2	$1.0\frac{1}{2}$ $1.4\frac{1}{2}$	4.	"			161
1.4	$1.1\frac{1}{8}$ 1.7	"	"		XLIX.	22
1.5	$1.1\frac{7}{8}$ $1.7\frac{3}{4}$	66	cı	Corbel	XLVIII.	$\frac{28}{281}$
1.6	$1.3\frac{1}{8}$ $1.7\frac{3}{4}$	"	44	46	"	282
1.8	$1.5\frac{1}{4}$ $2.3\frac{1}{2}$	"	"	"	44	283
3.	2.2 3.10	"	41	"	"	284
Also, other sizes.				"	XLV.	31
					XLII.	125
Capital, Corinthian for Pilaster	rs. Height inc.			A1		
	Width of abacus & pilaster: cover.			Also, other styles.		
	.6 1.1	XLIX.	26	Comics Circum Disir Donaile	77	110
	.7 1.1	44	"	Cornice. Singer. Plain. Dentils	VIII.	$\frac{119}{117}$
	.8 1.1	16	44	" Enriched. Modillions	X.	84
	.9 1.1	44	"	" Gilsey. " "	"	58
	.10 1.1	"	"	" " Trusses	"	85
	1 ft. 1.1	44	44	" Plain. Modillions	"	17
	1.2 - 1.1	"	"	" Enriched. " Dentils	"	97
	1.4 1.1	"	"	Plain. "	44	90
	$.9 1.2\frac{1}{2}$	"	"	" " "	"	91
	$10 ext{ } 1.2\frac{1}{2}$ 1 ft. $1.2\frac{1}{2}$	"	"	" Watervliet. Plain. Dentils	XIII.	120
	$egin{array}{cccc} 1 & ext{ft.} & 1.2rac{1}{2} \ 1.2 & 1.2rac{1}{2} \end{array}$	"	"	" B'way and Broome. Enriched. Mo-		
	$1.4 1.2\frac{1}{2}$	"	"	dillion. Balustrade above	XVI.	92
	$1.6 1.2\frac{1}{2}$	"	"	" 501 B'way. Enriched. Trnsses	"	86
	$1.8 1.2\frac{1}{2}$	"	"	" Lord & Taylor's. Plain, with ornam'ts.	"(82
	$1.0 1.4\frac{1}{2}$	"	46	11	XVIII.	100
	$1.2 1.4\frac{1}{2}$	"	"	Donc	"	101
	$1.4 1.4\frac{1}{2}$	"	44	ooo b way. Gottile and Ban-no wet	"	102
	1.6 $1.4\frac{1}{2}$	"	"	Tiam. Modifions	XX.	103
	1.8 $1.4\frac{1}{3}$	"	"	" Cooper Inst. " " " Enriched. " Dentils.	AA. "	61 87
	.10 1.3	"	"	" Plain. "	"	89
	$1.0 1.3\frac{1}{4}$	"	"	" Society Lib'ry. " Dentils.	"	93
	1.4 1.7	44	"	" Enriched	"	99
	$1.5\frac{1}{2}$ $2.3\frac{1}{2}$	"	"	" Plain. Modillions	"	83
Also, other sizes.				<i>u u u</i>	46	62

					Plate.	No.			ing	t, includ	t			
Cornice.	Enriched Modilli		rnamented		XXIII.	95			foot	lusive of leaf.	Projection.	Width	. P1 t .	No.
44	130 B'way. En				46	96	Consol	e or Truss.		1.6	.6	.6	• •	$_{\rm L}$
"	B'way & Grand		Dentils		XXXII.	98		D	C	1.8	.4	.4	• •	M
"	Gilsey.	44	Trusses		6) 37 F T T T T T	52		Face on	front.	2.0	.5	.6	. • •	N
Ç.	ŀ	Plain.	Dentils	• • • •	XLIV.	88				$\frac{2.0}{2.0}$.5	.7	• •	0
	Many other de	signs car	be made	with						1.7	$\frac{.5}{1.0}$.7 .8	• •	P R
	or without e	nrichmer	its.							1.6	1.0	.8	• •	S
										1.0	1.0	.0	• •	0
Console	or Trues							Many	other desi	gns an	d sizes.			
Console	Fiei i	ight, includ- ng caps, but xclusive of					Dontil	3					Tr	770
	f	oot leaf.	Project'n.	Width.	Plate.	No.	Dentil.	5				• • • • • •	V. VIII.	$\frac{119}{117}$
	Gilsey	1.4	.8	.5½	X.	85 90		• • • • • • • •	******		• • • • • • •		۷ 111.	118
	501 Broadway.	$2.6\frac{1}{2}$	1.5	.6	XVI. XXIII.	$\frac{86}{96}$	16	• • • • • • • •					X.	97
	130 "	3.8 .7	1.4	1.0	XLII.	$\frac{96}{71}$		• • • • • • • • •	•••••		• • • • • • •		XIII.	120
		1.10	.5 .9	.6 .10	XLVII.	38	"						XVIII.	100
		1.7	$.10\frac{1}{2}$.8	7X17.4 11°	32							XX.	87
		1.7	$.10\frac{1}{2}$.10	44	32							"	93
		1.45	$\frac{10\pi}{2}$	1.0	"	47							XXIII.	96
		1.10	1.6	1.5	similar to								XXXII.	98
		1.11	$.10\frac{1}{2}$.8	XLVII.	34								
	Tiffany	1.5	3.5	.9	"	67		Also,	other design	gns.				
	Thomas		1.11	.6	"	53								
	Tiffany	$1.8\frac{1}{2}$	1.7	.8	"	46	11		• • • • • • • •		• • • • • • •		XCVIII.	
	zazanaj vvvv	2.3	1.2	1.2		8					• • • • • •	• • • • • •	XCIX.	257
		2.3	1.2	1.0	44	8		Aleo man	y other des	iorie				
	Similar to No. 8,	,	.9	.10		K		Also, man	y other des	igus.				
	but no carved	1	.9	1.0		K								
	mold'g on face.	1	.9	1.2		K	11	, Arch and		od	• • • • • • • •		LXIII.	271
	Brandreth	2.9	1.5	1.4	XLVII.	35	"	"	44	• •		• • • • •	"	272
	Diamarca () () (2.1	.9	.6	XLVIII.		"	"	"				"	273
		2.1	.9	.8	"	275	"	"	"	• •	• • • • • • •	• • • • •	"	274
		2,1	.9	.10	44	275					Height.	Width.		
		2.1	.9	1.0	66	275	11	, Door. Lat	ttice		$4.4rac{1}{2}$		LXXVII.	
		2.1	.9	1.2	44	275	44	"			$4.3\frac{1}{2}$	1.1	"	131
		2.6	.11	.6	"	277	"	"			$4.1\frac{1}{2}$.10	44	131
		2.6	.11	.8	"	277	44	"		• • •	3.9	1.1	• • •	132
		$1.8\frac{1}{2}$.7	.7	66	279	"	"		• •	3.9	$.11\frac{1}{2}$	"	132
		1.8	.5	.7	44	279		\$6	• • • • •	• •	3.9	.10		132
	Similar to 276	2.4	1.2	.6		G		**		• •	$3.5\frac{1}{2}$	1.1		132
			1.0	.8		\mathbf{E}	"	"		• •	$3.5\frac{1}{2}$	$.11\frac{1}{2}$	"	132
		3.0	3.0		XLVIII.	6	"			• •	$3.5\frac{1}{2}$.10	"	132
		1.4	.10	.8	LXXII.	33	"	"		• •	$3.1\frac{1}{2}$.10	"	132
					44	36	"	μ	• • • • •	• •	$4.3\frac{1}{2}$	1.1	"	130
		$2.8\frac{1}{2}$.8	.8	"	37	"		• • • • •	• •	3.9	1.1	"	141
		1.3	.7	.7	"	39	"	"		• •	3.9	$.11\frac{1}{2}$	44	129
	Similar to 39	1.4	.6	$.7\frac{1}{2}$	• •	Q	"	"		• •	3.9	$.11\frac{1}{2}$	**	127
	•	1.4	.10			A	"	46		• •	$4.3\frac{1}{2}$	1.1	46	137
		1.3	.8			В	"	"		• •	3.9	1.1	war.	137
		$1.8\frac{1}{2}$	$.11\frac{1}{2}$.8		\mathbf{F}	"	"		• •			XCI.	48
		1.8	.6	.5		D	"	"			• • • •		"	205
		2.0	.9	.9	• •	\mathbf{H}	"	(4				 . Dauda		206
	Palmer		1.7	.8		I			any size	, with	or withou	it Borde		203
	"	3.2	1.7	.10		I		"		• •	• • • •		44	204
		2.2	1.0	1.0	• •	J	"	"		• •	• • • •	• • • •		207
		2.2	1.0	1.2		J	1 .	11 - 24 - 0	ano an C!	ular fi	one or P	ottoma		
		2.2	1.0	1.4		J	IN .	ll with Squ		uiar 1	ops or Do	nioms.		
		1.6	.6	.5	• •	\mathbf{L}	A	lso, other d	iesigns.					

Hove Hove Hove Hove Hove How				P	late.	No.	Lintel, or Cap. Window:
Key, Arch, different sizes. VIII. 115 plain horizontal 4.0 1.0 E	Horse Block						
NXVII. 107					III.	118	
	• •			7.77		107	1
NXXIII	44	44				112	
Also, other styles and sizes.							7.1
Also, other styles and sizes. Lattice. See Parels. Latting. Fatent. Iron. Fire-pool. Lintel, or Cap. Window: """ """ """ """ """ """ """ """ """ "						1	4.14 .10g A
Lattice See Parels Face Iron Fire-proof Face Iron Fire-proof Face Iron Fire-proof Face Iron I	••			• •		110	$\frac{4.10}{100}$
Lattice See Parels Free proof False See Parels See Parels False See Parels See Parels False See Parels See P							$0.1_2 - 1.0_4$
Lattice See Parels	Also, other	er styles	and sizes.				plain segment 5.3 .11 C
Lathing Patent Iron Fire-proof							Also, many other designs, all sizes.
Lathing							Plote No.
Lathing	Lattice. See Par	nels.					
Lintel, or Cap. Window: Cap. Cap. Window: Cap. Ca	Lathing Poten	4 Tron	Fire proof				
Lintel, or Cap. Window: " XLI. 188	Laming. Taten	r. 11011.					
Lintel, or Cap. Window: """ NLI, 188 """ NVI, 92 """ NVI, 92 """ NVII, 100 "any length, 6.5½ 140 B " 140 """ NVII, 100 """ NVII, 100 """ NVIII, 100 """ NVI			Width of Opening.		Plate.	No.	
	Lintel, or Cap. V	Vindow:	3.				
a	"	44			XLI.	138	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
## ## ## ## ## ## ## ## ## ## ## ## ##	"	"	4 ft.		"	3	
" 4.4½	46	44			"	139	1
"any length, 6.3½ 140 B " 140 " " " 41 " fm 3.2 to 3.6, 3.4	"	44			"	140	
"	"any length	1.	-		"	140	" " 103
"			_				Also many other styles and sizes
## fm 3.2 to 3.6,	44	44			"		Tiso, many other styles and sizes.
*** *** *** *** *** *** *** *** *** **	" flm 2 0 to		-				Panels, Lattice, any size LVII. 151
		•				_	
## 15.0							
			-				
			5.9	5 B			" "
" " 42½			• • • •				
" " " " 184 " " 4.5½ 68 B " 68 " " " 4.5½ 68 B " 68 " " " 4.4 " " 4.5½ 68 B " 68 " " " 4.4 " " 4.5½ 68 B " 68 " " " 4.4 " " 4.5½ 68 B " 68 " " " 4.4 " " 4.5½ 68 B " 68 " " " 4.4 " " 4.5½ 68 B " 68 " " " 4.4 " " 4.5½ 68 B " 68 " " " 4.4 " " 4.5½ 68 B " 68 " " " " 4.4 " " 4.5½ 68 B " 68 " " " " 194 " " 4.5 68 J " 68 " " " " 194 " " 4.5 68 J " 68 " " " " 194 " " 194 " " " 194 " " " 194 " " " 194 " " " 194 " " " 194 " " " 194 " " " 194 " " " 194 " " " 194 " " " 194 " " " 194 " " " 194 " " " 194 " " " " 194 " " " " 194 " " " " 194 " " " 194 " " " " 194 " " " " 194 " " " " 194 " " " " 194 " " " " 194 " " " " " 194 " " " " " 194 " " " " " " 194 " " " " " " " " " " " " " " 194 " " " " " " " " " " " " 194 " " " " " " " " " " " " 194 " " " " " " " " " " " " " 194 " " " " " " " " " " " " " 198 " " " " " " " " " " " " " 198 " " " " " " " " " " " " " " " 198 " " " " " " " " " " " " " " " " 198 " " " " " " " " " " " " " " " " " " "				• • • •			
""" 3.6 68 A "" 68 B "" "" 43 "" "" 43 "" "" 43 "" "" 43 "" "" 44 "" "" 44 "" "" 45 "" "" 44 </td <td></td> <td></td> <td>$4.2\frac{1}{2}$</td> <td></td> <td></td> <td>123</td> <td>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</td>			$4.2\frac{1}{2}$			123	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
" " 4.5½ 68B " 68 " " " 444 " " 3.6 68D " 68 " " " " 4.5½ " " 3.8 68E " 68 " " " " 4.5½ " " " 4.5½ " " " 4.5½ " " 10 68F " 68 " " " " 4.5½ " " 4.2½ 68H " 68 " " " 1111 " " fm 3.9 to 4.3 4. 68 G " 68 " " " 4.4 68 I " 68 " " 4.5 668J " 68 " " " 4.5 668J " 68 " " " 1111 " " 4.5 668J " 68 " " " 1111 " " 4.5 668J " 68 " " " 1111 " " 4.5 668J " 68 " " " 1111 " " 4.5 668J " 68 " " 1111 " " 4.5 68J " 68 " " 1111 " 11 11 11 11 11 11 11 11 11 11 11 11 11	44			• • • •			7 77777
" " 3.3 68 C " 68 " " " 44 " " 3.6 68 D " 68 " " " " 45 " " 3.8 68 E " 68 " " " " " 45 " " " 45 " " 3.8 68 E " 68 " " " " " 119 " fm 3.9 to 4.3 4. 68 G " 68 " " " 194 " " 4.2 68 H " 68 " " 111 11 11 11 11 11 11 11 11 11 11 11	"	"	3.6	$68\mathrm{A}$	"	68	
" 3.6 68 D " 68 " " " 445 " 3.8 68 E " 68 " " " " 45 " " 3.8 68 E " 68 "	"	14	$4.5\frac{1}{2}$	68 B	"	68	1
" " 3.8 68 E " 68 Pedestal. V. 119 " " 3.10 68 F " 68 " " XVI. 111 " f'm 3.9 to 4.3 4. 68 G " 68 " " 4.2½ 68 H " 68 " " " " " " " 94 " " 4.5 68 J " 68 " " " XLIV. 104 " " 4.5 68 J " 68 " " " XVI. 11 " " " 3.2½ 73 A " 73 " " XV. 8 " " 4.2 73 C " 73 " " XXX. 21 " " 2.11 73 D " 73 " " XXX. 21 " " 2.11 73 D " 73 " " XXX. 21 " " 3.5½ 73 F " 73 " " XXXV. 34 " " 3.2½ 73 E " 73 " " XXV. 34 " " 3.5 73 F " 73 " " XXV. 34 " " 4.0 73 G " 73 " " XXVI. 35 " " 4.1 73 H " 73 " " LXXIV. 36 " " 4.3 73 I " 73 " LXXIV. 39 " " 4.1 73 H " 73 " " LXXIV. 39 " " 4.3 73 I " 73 " LXXIV. 39 " " 4.1 121 B " 121 " LXVII. 40 " " 3.9 121 A " 121 Portico. XIV. 43 " " " XIV. 43 " " 3.3½ 71 A " 71 " " LXXIV. 24 " " 3.3½ 71 A " 71 " " LXXIV. 24 " " 3.3½ 71 A " 71 " " " LXXIV. 24 " " " 3.3½ 71 A " 71 " " " " XIV. 24 " " " 4.6 71 C " 71 " " " " " 180 " " " 4.6 71 C " 71 " " " " " 180 " " " 180 " " " 4.6 71 C " 71 " " " " " " 180 " " " 180 " " " 180	"	44	3.3	68 C	"	68	***************************************
" " 3.10 68 F " 68 " " " " XVI. 111 "f'm 3.9 to 4.3	46	"	3.6	$68\mathrm{D}$	"	68	45
"fm 3.9 to 4.3	4.6	"	3.8	68 E	"	68	Pedestal V. 119
" " " 4.2½ 68 H " 68 " " " " " " " " " " " " " " " " "	44	"	3.10	68 F	"	68	" XVI. 111
""" 4.2½ 68 H """ 88 """ 4.4 68 I """ SLIV. 104 """ 4.5 68 J """ SUII. 104 """ 3.2½ 73 A """ IX. 29 """ 3.4½ 73 B """ """ XXX 21 """ 4.2 73 C """ """ XXXV. 34 """" 2.11 73 D """ """ XXXV. 34 """" 3.2½ 73 E """ """ XXXV. 34 """" 3.5 73 F """ """ LXXVII. 35 """" 4.0 73 G """ """ LXXVII. 36 """" 4.1 73 H """ """ LXXVII. 36 """" 4.3 73 I """ """ LXXVII. 38 """" 4.1 73 H """ """ LXXVII. 39 """" 4.3 73 I """ """	" f'm 3.9 to	4.3	4.	68 G	44	68	" any size " 94
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			4.21		u	68	" 92
""" 4.5 68 J """>68 Pediment VII. 1 """ 3.2\frac{3}{4} 73 A "" 1X 29 """" 3.4\frac{3}{4} 73 B "" """ XXX 21 """" 4.2 73 C "" """ XXXX 21 """" 2.11 73 D "" """ XXXV 34 """" 3.2\frac{1}{4} 73 E """ """ XXXV 34 """" 4.0 73 G """ """ LXXVI 36 """" 4.1 73 H """ """ LXXVI 36 """" 4.3 73 I """ """ LXXVI 36 """" 4.3 73 I """ """ LXXVI 36 """" 4.3 73 I """ """ LXXVI 38 """" 4.3 73 I """ """ LXXVIII 40 """" 4.3 12 I """ """ LXXVIII 40	44	"			"		" XLIV. 104
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	66	"			"		Pediment VII. 1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4	66					TIT
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""" 4.1 73H " 73 " LXXV. 38 """ 4.3 73I " 73 " LXXVI. 39 """ 6.0 $\frac{3}{4}$ 121 " 121 " LXXVIII. 40 """ 3.9 121 A " 121 Portico. XIV. 43 """ 4.1 121 B " 121 " LXIV. 44 """ 3.4 121 C " 121 " LXIV. 24 """ 3.4 121 D " 122 Post—Awning. See Awning. """ " 178 """ 3.3 $\frac{1}{2}$ 71 A " 71 " " " " " " " " 178 """ 4.6 71 C " 71 " " " " " " " " " " 180 """ " 180 """ " 181 """ " 181							
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"" any length" 4.1 121 B " 121 " LV. 44 "" any length" 5.3 121 C " 121 " LXIV. 24 "" "" 3.4 121 D " 122 Post—Awning. See Awning. LXXXI. 177 "" "" "" "" "" "" "" "" "" "" "" "" ""	"		_	121	"	121	
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" 3.4 121 D " 122 Post—Awning. See Awning. " " 125 Post—Horse, or Hitching. LXXXI. 177 " " 3.3½ 71 A " 71 " " " " 178 " " 4.1 71 B " 71 " " " " 179 " " 4.6 71 C " 71 " " " " " 180 " " 181	44	44	4.1	$121~\mathrm{B}$	44	121	
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	66	44			46		Post—Horse, or Hitching LXXXI. 177
" " 4.1 71 B " 71 " " "	46	"			4.		
" " 4.6 71 C " 71 " " "	u	"	_				" " " " " " " " " " " 179
" " XLIV. 144 " " "	£¢	"			"		" " " 180
" 100	44	66			XLIV		" " " 181
	44	46					" 100
			•			110	

Post-	-Gate	or Railing	• • • • • • • • • • • • • • • • • • • •	Plate. XCVIII.	No. 246	Railing	Plate. XCVII.	No. 239
44	tt	"		44	247	"	11.	$\frac{239}{240}$
44	tt	. 6		"	248	"	44	
"	44	44		"	249		46	$\frac{241}{242}$
44	44	**		44	250	u	"	243
44	te	44		44	251		44	244
44		44		"	252	"		
44	44	"		"	253	***************************************	C. CI.	105
44	66	44		66	254	" Cemetery	XCVI.	162
44	"	44		44	255	" "	AU11.	$\frac{236}{237}$
64	44	44		4.4	256	***************************************	44	
44	"	44		XCIX.	258			238
££	44	64		"	259	Also, many other designs.		
46	44	+4		"	260	Also, many other designs.		
66	44	44		46	261			
44	44			"	262	Railroad Track	LXVI.	41
44	"	44		44	263	***		
"	66	44	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Riser		187
					264	"	44	189
44	"	44		"	265	"	44	191
44	44			"	267	"	44	194
44	66	11		44	268	"	"	195
						"	11	196
	Also	, many oth	er designs.			"	44	197
/						Roof	VI.	16
		P• · · · · · · ·		XLIV.	128	u	XII.	56
44				LXXXI.		"	LXXIII.	19
44	66			""	176		11111111111	10
						D	T 373711	
	Also	, other desi	gns.			Rosette	LXXII.	55
							"	56
						•••••••••••••••••••••••	"	57
Railin	g			XCIII.	208	***************************************	"	59
44	• • •		• • • • • • • • • • • • • • • • • • • •	"	209	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	"	60
"				6.6	210			63
**				"	211		"	64
44				44	212	<u> </u>	"	65
"				44	213	"	"	66
11				"	214	"	"	69
44				44	215	"	44	72
44				4.6	216	"	"	74
14				66	217	"	"	75
44				"	218	"	LXVI.	41
44				44	219	Also a great variety of -12		
"				XCIV.	220	Also, a great variety of others.		
				46	221			
44				44	222	Sashes, Pat., Iron and Brass. Light, strong, durable	, fire-proof.	
44				"	223			
44				44	224	Shutters, Iron Rolling	XXIX.	143
"				"	225	"	LXIX.	149
44				44	226		"	150
44				46	227	" "	LXXI.	5
tt				44	228		0	
"				XCV.	229	These plates explain the construction, operati	on, &c.	
44				χυν. "	230	Sill, Door, any width or length	LXXXII.	185
				"		Sill, Door, any width or length	"	188
"				"	231		"	190
					232			192
"	• • • •	• • • • • • • • •		**	233			104
"	• • • •	• • • • • • • •		"	234	Also, a great variety of other patterns.		
**		• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	"	235	· -		
						6		

Sill, W	indow,	any si	ze	XLIII.		Truss—see Console.				
er er	"	"		"	30 78	Urn	Height.	Width at base.	XLVIII.	278
"	"	"			79	"	1.1	$.5\frac{1}{2}$	LXXX.	163
66	"	"		44	80	46	2.3	1.4	44	164
						44	3.10	1.7	"	165
	Also, a	great v	variety of other patterns.		1	٠٠	3.8	.11	44	166
						٠٠	2.2	.9	"	167
						"	1.8	$.8\frac{1}{2}$	44	168
Stairs-	Circul	ar		LXXXII.	198	"	2.4	1.2	"	169
						"	3.0	.10	"	170
	Also, o	ther sty	rles.			"	4.0	1.6	"	171
		•				"	2.9	.8	££	172
Tread,	Stair .	a a w * * *		. LXXXII.	186	Verandah			C. CI.	105 162
	Also, o	ther sty	·les.			Also, other styles.				

CATALOGUE OF THE PRINCIPAL WORKS

ERECTED BY THE

ARCHITECTURAL IRON WORKS.

LOCATION.	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
Albany, N. Y., Greene St			
Do do N. Pearl St.	James Kidd		2 "
Do do do	do	Smith	42 feet 4-story Front, similar to Plate XXI.
	A. Koonz		
Do do	. Woollett & Ogden		1 "
ALEXANDRIA, La			Court House Portico, and Main Course.
ALEXANDRIA, Egypt	R. H. Allen & Co		Iron Storehouse.
ALLEGHANY CITY, Penn			
ATLANTA, Ga	. I. Boutell		80 feet Store Front.
Do	. Beach & Root		49 " "
AUBURN, N. Y	J. W. Haight		1 Store Front.
	. F. L. Griswold & Co		
Augusta, Ga			
	. City Bank		
			2-story Front. Plate XXXVII., No. 18.
Baltimore, Md			
	. Canfield, Brothers & Co.		
	. J. King		
Ватн, N. Y			
	. A. S. Howell		
Boston, Blackstone Street			
	. Mr. Richardson		
	. L. Ware		
			50-feet 5-story Front. See Plate LVIII.
			1 Store Front. Plate XL., No. 67.
			5 Store Fronts. Plate XXVIII., No. 62.
			5-story Front. Plate LIX.
Brant, Canada West			
Bridgeport, Conn			
	R. E. Stanton		
Do do	. City Bank	do	9 Store Events
Do do	Dhanis Wanshauga Ca	uo	2 Store Fronts. 42 Oil Tanks, 300 bbls. each.
Do do Atlantic St	J. Smith	King & Kollum	1 Store Front
Do do Atlantic D'	Ir II States Wavehaves Co.	G. H. Johnson & Co.	Grain Warehouse, Plates LX., LXI., LXII.,
Do do AnanticD'	k. U. States warehouse Co.	G. II. Johnson & Co.	107×125 feet. 5 stories. Fire-proof.

\mathbf{L}	OCATION.		PROPRIETOR.	ARCHITECT.	DESCRIPTION.
Brooklyn,	N. Y., Fulton	n St.	Mr. Williams		2 Store Fronts.
\mathbf{Do}	do do		E. Lewis		
Do	do do		L. J. Horton	_	
\mathbf{Do}	do do		J. O. Whitehouse		
$\overline{\mathrm{Do}}$	do do				Iron Works, Fulton Mills.
$\tilde{\mathrm{Do}}$	do do		City of Brooklyn		
D_0	do do		V. G. Hall		
$_{ m Do}$	do do		W. H. Cary		
\mathbf{p}_{0}	do do		Mr. Newman		
Do					
			J. Burroughs		
Do	do do				Halsey Building. Plate LII.
Do	do do		C. V. B. Ostrander		
Do	do do		Smith & Jewell		
Do	do do		Kings County	King & Tecknitz	Iron Work, Kings Co. Court Ho.: Beams,
_					Roof, Dome, Stairs, Sashes, Shutters, &c.
Do					Iron Work, Atlantic Flour Mill.
Do	Navy Yard.		U. S. Government		"Government Stores.
Do	Pierrepont I	Place.	A. A. Low	F. A. Petersen	47 feet Greenhouse Front.
Do	do		do	do	1 Verandah.
Do	do		A. A. White	do	1 "
Buffalo, N	V. Y		George Coit, Jr		
Do			Mr. Buckley		
Do					173 feet Front, Brown's Building.
			Dwing, Thayer & Co		
Do			O. M. Cohen		
\mathbf{D}_{0}			F. O. Fanning & Co		
Do			R. Boyce		
Do			H. W. Conner		
D_0			Hariel, Hare & Co		
D_0			T. A. P. Horton		
Do			A. Elfe		
Do					
Do			Bancroft, Betts & Marshal L. M. Hatch		
			W. J. Walker & Brother		
Do					
\mathbf{p}_{0}		• • • •	J. E. Spear	• • • • • • • • • • • • • • • • • • • •	1
D_0			P. O'Donnell		
Do			U. S. Government		
			C. R. Starkweather		
$\mathbf{p}_{\mathbf{o}}$					231 feet 5-story Front. Plate LIV.
Do			J. Link		100 1000 0-
\mathbf{p}			Lloyd and Sons		Λ1Λ.
\mathbf{D} o			F. Tuttle and others		158 feet 5- " LXX.
Do			Price, Church & Co		
			F. P. Dias		
,			F. & C. H. Buhl		
			E. Risley & Co		
			U. S. Government		
			S. W. Ronguie		
			Glenham Company		
Grand Ra			J. W. Pierce		
Do			W. P. Collins		
HALIFAX, N	V. S		W. G. Combes		4-story Front. Plate LXXIX.
$\overline{\mathrm{Do}}$			Mr. Bennett		
Do			Duffries & Co	do	
Do			Mr. Coleman	do	
Do			Mr. Billings, Jr	do	1 " " LXVIII.
			-		

LOCATION.	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
HALIFAX, N. S	Mr. Chipman	C. P. Thomas	. 2 Store Fronts, Plate LXXIV.
	Mr. Skerry		
	Mr. Mignowitz		
	Mr. Billings		
	C. C. Tropolet		
	Mr. Roman		
	Mr. Scott		
			Sugar Sheds, 143 feet long. Pl. LXXIII.
			Lumber Sheds, \$1 × 120 feet.
High Bridge			
Lancaster, Penn			
LOCKPORT, N. Y			
Lynchburg, Va	J. T. Davis		1 "
	W. S. Ellison		
Martinsville, La			
MATANZAS, Cuba			
			4-story Front, similar to Pl. XV., No. 7.
			2 Store Fronts. Plate XXXIII.
	Cooke & Co		
MILWAUKEE, Wis			
	Mack, Ottinger & Co		
	Mahler & Wendt		
			160 feet 4-story Front. Plate XLVI.
Mobile, Ala			· ·
	Daniels, Elgin & Co		
Do			103 feet Store Front.
Newark, N. J			
			40 feet 4-story Front. Plate XXVI.
	J. W. Corey		
New Haven, Conn			
	T. Bennett		
Do	Perkins, Treat & Chatfield	1	2
	Young Men's Inst		
	A. Parker		
New London, Conn	S. & G. Rogers		2 "
New Orleans, La	Paul Tulane		47 feet 5-story Front. Plate VII.
Do	J. B. Lee		62 feet Store Front.
NEW YORK:			
Barclay St., No. 34	R. A. & G. Witthaus	S. A. Warner	5-story Front. Plate XXXVIII., No. 9.
	Mr. Gibson		
	Wolfe & Mickle		
	T. E. Gilbert	W. H. Hume	
Beekman St., 23, 25			
	• • • • • • • • • • • • • • • • • • • •		
Do 29	Remsen & Ely	G. W. Noble	
Do 55, 57			
Do 79, 81			
			5-story Front. Plate XC., No. 14.
Bleecker St., cor. Mercer.	Mr. Bosch		
Do do	Judge Jackson		
	A. T. Stewart		
			1 Store Front and Basement.
	Wm. B. Astor		
Do 96	A. L. Ely	R. G. Hatfield	1 "
Do 98	7	Thomas & Son	1 "
	· ·		

Bowery No. 110	LOCATION. NEW YORK:	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
Do		A. L. Elv	. R. G. Hatfield	1 Store Front and Basement.
Do				
Do Canal Lorillards Thomas & Son 132 feet Store Fronts				
Do " Delancey, J. B. Simpson. A. Winham. 50 " 4 Store Fronts.				
Do				
Do				
Bridge St. R. Blacco 91 " "				
Broadway, Nos. 39 to 49 McChridy, Aldrich & Spencer. 5 Store Fronts.				
Store Fronts				
Do	D1044 (12), 1(05), 00 to 20	cer		5 Store Fronts.
Do	Do 53			
Do				, ,
Do				
Do				
Do				•
Do				
Do	Do 199	— Young	*****************	1 "
Do 203 J. Q. Jones 1 " Do 204 Appletons Thomas & Son 1 " Do 205 W. H. Smith 1 " and Basement. Do 235 Tracy, Irwin & Co. Thomas & Son 1 " Do 241, 243 Solomon & Hart F. A. Petersen 2 Store Fronts. Do 245 D. O'Connor 1 Store Front. Do 252 5-story Front, similar to Plate XV., No. 7. Do 257 Mr. Field 1 Store Front. Do 297 S. Storms 1 " Do 292, 296 J. De Forest 2 Store Fronts. Do 294 B. Pike, Jr. 1 Store Front. Do 300 W. B. Astor G. Thomas 1 " Do 306 Mr. Barclay 1 " Do 332 John Dolan J. B. Snook 5-story Front, similar to Plate XC. Do 341 Paton & Co. J. H. Giles				
Do 204. Appletons. Thomas & Son 1 "and Basement. Do 205. W. H. Smith 1 "and Basement. Do 235. Tracy, Irwin & Co. Thomas & Son 1 Do 241, 243 Solomon & Hart F. A. Petersen 2 Store Fronts. Do 245. D. O'Connor 1 Store Front. Do 245. D. O'Connor 1 Store Front, similar to Plate XV., No. 7. Do 252. 5-story Front, similar to Plate XV., No. 7. Do 257. Mr. Field 1 Store Front. Do 287. S. Storms 1 Do 292, 296. J. De Forest 2 Store Fronts. Do 294. B. Pike, Jr. 1 Store Front. Do 300. W. B. Astor G. Thomas 1 Do 306. Mr. Barclay 1 " Do 332. John Dolan J. B. Snook 5-story Front, similar to Plate XC. Do 341. Paton & Co. J. H. Giles				
Do 205 W. H. Smith 1 " and Basement. Do 235 Tracy, Irwin & Co. Thomas & Son 1 " Do 241, 243 Solomon & Hart F. A. Petersen 2 Store Fronts. Do 245 D. O'Connor 1 Store Front. Do 252 5-story Front, similar to Plate XV., No. 7. Do 257 Mr. Field 1 Store Front. Do 287 S. Storms 1 " Do 292, 296 J. De Forest 2 Store Fronts. Do 294 B. Pike, Jr. 1 Store Front. Do 300 W. B. Astor G. Thomas 1 Do 306 Mr. Barclay 1 " Do 332 John Dolan J. B. Snook 5-story Front, similar to Plate XC. Do 341 Paton & Co. J. H. Giles 1 Store Front. Do 342 J. & I Cox 1 " Do 349 J. & I Cox 1 " <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
Do 235 Tracy, Irwin & Co. Thomas & Son. 1 " Do 241, 243 Solomon & Hart. F. A. Petersen. 2 Store Fronts. Do 245 D. O'Connor 1 Store Front. Do 252 5-story Front, similar to Plate XV., No. 7. Do 257 Mr. Field 1 Store Front. Do 287 S. Storms 1 " Do 292, 296 J. De Forest 2 Store Fronts. Do 294 B. Pike, Jr. 1 Store Front. Do 300 W. B. Astor. G. Thomas 1 Do 306 Mr. Barclay 1 " Do 332 John Dolan J. B. Snook 5-story Front, similar to Plate XC. Do 341 Paton & Co. J. H. Giles 1 Store Front. Do 343 Geo. Ponsot 1 " Do 349 J. & I Cox 1 " Do 360 P. Lorillard 1 "				
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Do 252 5-story Front, similar to Plate XV., No. 7. Do 257 Mr. Field 1 Store Front. Do 287 S. Storms 1 Do 292, 296 J. De Forest 2 Store Fronts. Do 294 B. Pike, Jr 1 Store Front. Do 300 W. B. Astor G. Thomas 1 Do 306 Mr. Barclay 1 " Do 332 John Dolan J. B. Snook 5-story Front, similar to Plate XC. Do 341 Paton & Co. J. H. Giles 1 Store Front. Do 343 Geo. Ponsot 1 " Do 349 J. & I Cox 1 " Do 349 J. & I Cox 1 " Do 360 P. Lorillard 1 " Do 361, 363 H. Wood J. Rogers 2 Store Fronts [No. 66. Do 369 Solomon & Hart F. A. Petersen 1 Store Front and Basement. Pl. XXVIII.,				
Do 257. Mr. Field 1 Store Front. Do 287. S. Storms 1 Do 292, 296. J. De Forest 2 Store Fronts. Do 294. B. Pike, Jr. 1 Store Front. Do 300. W. B. Astor G. Thomas 1 Do 306. Mr. Barclay 1 " Do 332. John Dolan J. B. Snook 5-story Front, similar to Plate XC. Do 341. Paton & Co. J. H. Giles 1 Store Front. Do 343. Geo. Ponsot 1 " Do 349. J. & I Cox 1 " Do 349. J. & I Cox 1 " Do 355. Adriance & Strang 1 " Do 360. P. Lorillard 1 " Do 361, 363. H. Wood J. Rogers 2 Store Fronts [No. 66. Do 369. Solomon & Hart F. A. Petersen 1 Store Front and Basement. Pl.				
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Do 343. Geo. Ponsot 1 " Do 349. J. & I Cox 1 " Do 355. Adriance & Strang 1 " Do 360. P. Lorillard 1 " Do 361, 363. H. Wood J. Rogers 2 Store Fronts. [No. 66. Do 369. Solomon & Hart F. A. Petersen 1 Store Front and Basement. Pl. XXVIII., Do 371, 375. Dr. Moffat 2 " and Rear. Do 372. H. D. Aldrich S. A. Warner 1 " Do 373. L. Spencer J. B. Snook 5-story Front and Basement. Plate XIX.				
Do 349. J. & I Cox 1 " Do 355. Adriance & Strang 1 " Do 360. P. Lorillard. 1 " Do 361, 363. H. Wood. J. Rogers. 2 Store Fronts. [No. 66. Do 369. Solomon & Hart. F. A. Petersen. 1 Store Front and Basement. Pl. XXVIII., Do 371, 375. Dr. Moffat. 2 " " and Rear. Do 372. H. D. Aldrich. S. A. Warner. 1 " Do 373. L. Spencer. J. B. Snook. 5-story Front and Basement. Plate XIX.				
Do 355 Adriance & Strang. 1 " Do 360 P. Lorillard. 1 " Do 361, 363 H. Wood. J. Rogers. 2 Store Fronts. [No. 66. Do 369 Solomon & Hart. F. A. Petersen. 1 Store Front and Basement. Pl. XXVIII., Do 371, 375 Dr. Moffat. 2 " " and Rear. Do 372 H. D. Aldrich S. A. Warner. 1 " Do 373 L. Spencer. J. B. Snook. 5-story Front and Basement. Plate XIX.				
Do 360				
Do 361, 363 H. Wood J. Rogers 2 Store Fronts. [No. 66. Do 369 Solomon & Hart F. A. Petersen 1 Store Front and Basement Pl. XXVIII., Do 371, 375 Dr. Moffat 2 " and Rear. Do 372 H. D. Aldrich S. A. Warner 1 " Do 373 L. Spencer J. B. Snook 5-story Front and Basement Plate XIX.				
Do 369				
Do 371, 375 Dr. Moffat				
Do 372 H. D. Aldrich S. A. Warner 1 " Do 373 L. Spencer J. B. Snook 5-story Front and Basement. Plate XIX.				
	Do 373	L. Spencer	J. B. Snook	5-story Front and Basement. Plate XIX.

NEW YO	OCATION. RK:	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
Broadwa	y, No. 388	D. Wood	King & Kellum	1 Store Front, Basement and Rear.
\mathbf{D}_{0}		P. & R. Goelet		
D_0		P. Lorillard		
Do		Duncan & Sons		
$\overline{\mathrm{Do}}$				125 feet Store Fronts. City Assembly R'ms.
$\overline{\mathrm{Do}}$		Mr. Collamore		
Do		Mr. Jackson		
$\overline{\mathrm{Do}}$		Peter Goelet		
Do	456	T. Woodruff		1 "
Do		W. Gibson		
Do		J. De Wolfe		
\mathbf{D}_{0}				3-story Front. Plate XI.
D_0		O. B. Potter		
D_0				2-store Fronts. Basement and Rear.
\mathbf{D}_{0}		E. Langdon		
\mathbf{D}_{0}				
D_0	505	Savings Bank	• • • • • • • • • • • • • • • • • • • •	Pat Shuttons for Front
Do		S. Brewster		
\mathbf{D}_{0}		W. B. Astor		1
Do		m:ce		1
\mathbf{D}_{0}		Tiffany & Co		
\mathbf{p}		R. French		2
Do		A. R. Eno		1
$\widetilde{\mathrm{Do}}$		Langdon family		0
$\widetilde{\mathrm{Do}}$				1
$\mathbf{p}_{\mathbf{o}}$		W. & E. Mitchell		1
Do				T
Do	606		T. D. O 1	1
\mathbf{Do}	620	Henry Dolan	J. B. Snook	6-story Front. Sim. to Plate VII.
Do	$621\ldots\ldots$	Gerard Stuyvesant		1 Store Front.
Do	624, 626	Uhl & Whitney	J. M. Trimble	Ent. to L. Keene's Thea. Pl. LXIV., No. 24.
$\mathbf{p}_{\mathbf{o}}$	627, 629	S. Brewster		2 Store Fronts.
$\mathbf{D}\mathbf{o}$		P. & R. Goelet		
Do	645	Mr. Agate		1 Store Front.
$\mathbf{D}\mathbf{o}$				
\mathbf{D} o	654			
$_{\mathrm{Do}}$		J. La Farge	Jas. Renwick	150 ft "Old La Farge House.
Do	"		Jas. Renwick	190 It Tiew
Do				
$\mathbf{D}\mathbf{o}$		Mr. Manice		
Do		•••••		1
$\mathbf{D}\mathbf{o}$		Mr. Holmes		1
\mathbf{D} o		J. G. Pearson		
\mathbf{Do}	$752\ldots\ldots$	N. Y. Dyeing & P. Est.		1 "
$\mathbf{D}\mathbf{o}$		S. Kohnstamm		
\mathbf{D} o		J. Colles		
Do		C. V. S. Roosevelt		
$_{\mathrm{Do}}$	847			
Do	cor Exch. Pl	J. Steward, Jr., & Co		1 "
$_{ m Do}$	" Pine	Continental Ins. Co	Thomas & Son	2 Fronts.
$_{\mathrm{Do}}$	" Cedar		J. B. Snook	2 store Fronts.
$_{\mathrm{Do}}$	" Liberty	Mr. Herrick		1 Store Front.
Do	" Cortlandt			1 "
$_{\mathrm{Do}}$	" "	P. Gilsey	J. W. Ritch	6-story Front. 163 ft. Gilsey Build., Pl. IX.
Do	" Dey	W. W. Chester		1-store Front.

LOCATION.		PROPRIETOR.	ARCHITECT.	DESCRIPTION.			
NEW YO		D 11 E1		1.60 T			
		Ball, Tompkins & Black					
$\mathbf{p}_{\mathbf{o}}$				Pat. Shutters, 150 feet Front.			
Do	" Chamber and Reed.	A. T. Stewart	J. B. Snook	··			
\mathbf{Do}		J. Gemmell	S. A. Warner	50 feet Store Front.			
\mathbf{Do}	" Anthony	Dr. J. Moffat		1 Store Front.			
\mathbf{D} o				175 feet Store Front and Basement.			
\mathbf{Do}		Appletons					
\mathbf{Do}							
\mathbf{Do}		W. G. Lane & Co					
\mathbf{Do}		W. Gibson					
\mathbf{D} o				75 feet Front. Taylor's Saloon.			
\mathbf{Do}		Mr. Clark					
Do	" Canal and Lis-			290 feet Store Front and main cornice.			
_	penard	75 777 7	D 0 77 411	Brandreth House.			
\mathbf{D}_{0}		B. Wood					
$\widetilde{\mathrm{Do}}$		W. Gale & Son					
Do	"	W. Langdon	J. P. Gaynor	5-story Front. 162 ft. Haughwout Building Plate III.			
\mathbf{Do}	" Spring	R. H. Haight & Co.,	J. B. Snook				
Do		J. J. Astor's heirs					
\mathbf{Do}	" Drings	A. T. Stewart		237 ft "Metropolitan Hotel			
$\mathbf{D_0}$		Mr. Philbin		1			
${ m Do} \over { m Do}$		w.r. I mom					
				·			
D_0		T. D					
Do		J. Beck					
D_0				2 Store Fronts and Basements.			
Do		Mr. Valentine					
$\mathbf{p}_{\mathbf{o}}$		C II.7.4.3					
Do		S. Halsted	<u> </u>				
Do		TT T' '		2			
Do		Mr. Livingston					
Do		S. V. Hoffman					
$\mathbf{p}_{\mathbf{o}}$	=	Mr. Dodworth					
Do		Mr. Bulkley					
Do		W. Sniekner					
Do		S. Brewster		O			
Do							
	,	J. Hesley					
$\mathbf{D}^{\mathbf{o}}$		P. H. Frost					
$\mathbf{p}_{\mathbf{o}}$		Rosenblat & Banta					
$\mathbf{p}_{\mathbf{o}}$	•	People's Bank					
Do		Mr. White					
Do Do		N. & J. Brown					
Do		T To Division		7			
		J. D. Phillips					
Central Park							
Chambers Street: Do 43 to 49 Spencer, Wyeth&Stewart R. Henry 4 Store Fronts and Rear.							
Do		-	· ·				
Do		R. Henry		1			
D_0		Doddie & Mamier		1			
Do	· · · · · · · · · · · · · · · · · · ·	r eddie & Merriam	• • • • • • • • • • • • • • • • • • • •	5-story Front and Basement, similar to Plate XXXVIII, No. 39.			

NEW YORK: Chambers Street, 78.
Do
Do
Do 120
Do 120
Do 122
Do
Chatham Street, 19. J. B. Simpson. J. B. Snook. 1 Store Front. Basement and Rear. Do 65. Chatham Bank. J. B. Snook. 1 " Do 74
Do 65 Chatham Bank J. B. Snook 1 Do 74 1 " Do J. B. & W. Simpson 2 " French's Hotel. Church Street, S. D. Babcock T. S. Wall 1 " " cor Fulton Mr. Matthews 1 " " cor Fulton Mr. Phyfe J. B. Snook 108 ft. " Cliff Street, 22 Mr. James 1 Store Front and Rear. College Place, 7 W. H. Grinnell R. H. Mook 5-story and Base't. Pl. XV, No. 7 Cortlandt Street 3 C. & U. J. Smith 1 Store " and Base't. Pl. XV, No. 7 Cortlandt Street 3 C. & U. J. Smith 1 Store " and Base't. Pl. XV, No. 7 Cortlandt Street 3 C. & U. J. Smith 1 Store " and Base't. Pl. XV, No. 7 Cortlandt Street 3 C. & U. J. Smith 1 Store " and Base't. Pl. XV, No. 7 Cortlandt Street 3 C. & U. J. Smith 1 Store " and Base't. Pl. XV, No. 7 Cortlandt Street 3 C. & U. J. Smith
Do 74. 1 " Do J. B. & W. Simpson. 2 " French's Hotel. Church Street, S. D. Babcock. T. S. Wall. 1 " " Mr. Matthews. 1 " " " Cor Fulton. Mr. Phyfe. J. B. Snook. 108 ft." 108 ft." Cliff Street. 22 Mr. James. 1 Store Front and Rear. College Place, 7. W. H. Grinnell. R. H. Mook. 5-story. " and Base't. Pl. XV, No. 7 And Base't. Pl. XV, No. 7 Cortlandt Street 3. C. & U. J. Smith. 1 Store. " and Base't. Pl. XV, No. 7 To. 7 And Base't. Pl. XV, No. 7 To. 7 To. 7 And Base't. Pl. XV, No. 7 To. 7 To. 7 And Base't. Pl. XV, No. 7 To. 7 To. 7 And Base't. Pl. XV, No. 7 To. 7 To. 7 And Base't. Pl. XV, No. 7 To. 7 To. 7 And Base't. Pl. XV, No. 7 To. 7 To. 7 To. 7 And Base't. Pl. XV, No. 7 To. 7
Do J. B. & W. Simpson. 2 " French's Hotel. Church Street, S. D. Babeock. T. S. Wall. 1 " " Mr. Matthews 1 " " cor Fulton. Mr. Phyfe. J. B. Snook. 108 ft." Cliff Street, 22. Mr. James. 1 Store Front and Rear. College Place, 7. W. H. Grinnell. R. H. Mook. 5-story " and Base't. Pl. XV, No. 7 Cortlandt Street 3. C. & U. J. Smith. 1 Store " Do 4. C. Vanderbilt. 1 " Do 6,8 Brown & Cushing. 2 " Do 12, 14, 16. Mr. Hurry. 3 " Do 15, 17. Mr. Dwire. 2 " Do 19, 21 2 " Do 20. Gilbert, Prentiss & Tuttle 1 " Do 22. Bennett & Johnson 1 " Do 23. Wilson & Co. 1 " Do 13. Wilson & Co. 1 " Do 15.
Church Street, S. D. Babcock T. S. Wall 1 " Mr. Matthews 1 " " cor Fulton Mr. Phyfe J. B. Snook 108 ft." Cliff Street, 22 Mr. James 1 Store Front and Rear. College Place, 7 W. H. Grinnell R. H. Mook 5-story and Base't. Pl. XV, No. 7 Cortlandt Street 3 C. & U. J. Smith 1 Store " Do 4 C. Vanderbilt 1 " Do 6,8 Brown & Cushing 2 " Do 12, 14, 16 Mr. Hurry 3 " Do 15, 17 Mr. Dwire 2 " Do 19, 21 2 " Do 20 Gilbert, Prentiss & Tuttle 1 " Do 22 Bennett & Johnson 1 " Dey Street, 5, 7 Noel J. Becar 2 " Do 13 Wilson & Co 1 " Do 15 Mr. Cox 1 "
" cor Fulton Mr. Phyfe J. B. Snook 108 ft. " Cliff Street, 22 Mr. James 1 Store Front and Rear. College Place, 7 W. H. Grinnell R. H. Mook 5-story " and Base't. Pl. XV, No. 7 Cortlandt Street 3 C. & U. J. Smith 1 Store " Do 4 C. Vanderbilt 1 " Do 6,8 Brown & Cushing 2 " Do 12, 14, 16 Mr. Hurry 3 " Do 15, 17 Mr. Dwire 2 " Do 19, 21 2 " Do 20 Gilbert, Prentiss & Tuttle 1 " Do 22 Bennett & Johnson 1 " Dey Street, 5, 7 Noel J. Becar 2 " Do 13 Wilson & Co 1 " Do 15 Mr. Cox 1 "
" cor Fulton Mr. Phyfe J. B. Snook 108 ft. " Cliff Street, 22 Mr. James 1 Store Front and Rear. College Place, 7 W. H. Grinnell R. H. Mook 5-story " and Base't. Pl. XV, No. 7 Cortlandt Street 3 C. & U. J. Smith 1 Store " Do 4 C. Vanderbilt 1 " Do 6,8 Brown & Cushing 2 " Do 12,14,16 Mr. Hurry 3 " Do 15,17 Mr. Dwire 2 ' Do 18 1 " Do 19,21 2 " Do 20 Gilbert, Prentiss & Tuttle 1 " Do 22 Bennett & Johnson 1 " Dey Street, 5, 7 Noel J. Becar 2 " Do 13 Wilson & Co 1 " Do 15 Mr. Cox 1 "
Cliff Street, 22. Mr. James. 1 Store Front and Rear. College Place, 7. W. H. Grinnell. R. H. Mook 5-story and Base't. Pl. XV, No. 7 Cortlandt Street 3. C. & U. J. Smith. 1 Store " Do 4. C. Vanderbilt. 1 " Do 6,8 Brown & Cushing. 2 " Do 12, 14, 16 Mr. Hurry 3 " Do 15, 17 Mr. Dwire. 2 " Do 18 1 " Do 19, 21 2 " Do 20 Gilbert, Prentiss & Tuttle 1 " Do 22 Bennett & Johnson 1 " Dey Street, 5, 7 Noel J. Becar 2 " Do 13 Wilson & Co 1 " Do 15 Mr. Cox 1 "
College Place, 7. W. H. Grinnell R. H. Mook 5-story and Base't. Pl. XV, No. 7 Cortlandt Street 3. C. & U. J. Smith 1 Store " Do 4 C. Vanderbilt 1 " Do 6, 8 Brown & Cushing 2 " Do 12, 14, 16 Mr. Hurry 3 " Do 15, 17 Mr. Dwire 2 " Do 18 1 " Do 19, 21 2 " Do 20 Gilbert, Prentiss & Tuttle 1 " Do 22 Bennett & Johnson 1 " Do 13 Wilson & Co 1 " Do 15 Mr. Cox 1 "
Cortlandt Street 3. C. & U. J. Smith. 1 Store Do 4. C. Vanderbilt. 1 Do 6,8. Brown & Cushing. 2 Do 12, 14, 16. Mr. Hurry. 3 Do 15, 17. Mr. Dwire. 2 Do 18. 1 " Do 19, 21. 2 " Do 20. Gilbert, Prentiss & Tuttle 1 " Do 22. Bennett & Johnson. 1 " Dey Street, 5, 7. Noel J. Becar 2 " Do 13. Wilson & Co. 1 " Do 15. Mr. Cox. 1 "
Do 4
Do 6, 8 Brown & Cushing 2 " Do 12, 14, 16 Mr. Hurry 3 " Do 15, 17 Mr. Dwire 2 " Do 18 1 " Do 19, 21 2 " Do 20 Gilbert, Prentiss & Tuttle 1 " Do 22 Bennett & Johnson 1 " Dey Street, 5, 7 Noel J. Becar 2 " Do 13 Wilson & Co 1 " Do 15 Mr. Cox 1 "
Do 12, 14, 16. Mr. Hurry 3 " Do 15, 17. Mr. Dwire 2 " Do 18. 1 " Do 19, 21 2 " Do 20. Gilbert, Prentiss & Tuttle 1 " Do 22. Bennett & Johnson 1 " Dey Street, 5, 7. Noel J. Becar 2 " Do 13. Wilson & Co 1 " Do 15. Mr. Cox 1 "
Do 12, 14, 10 Mr. Dwire 2 " Do 15, 17 Mr. Dwire 2 " Do 18 1 " Do 19, 21 2 " Do 20 Gilbert, Prentiss & Tuttle 1 " Do 22 Bennett & Johnson 1 " Dey Street, 5, 7 Noel J. Becar 2 " Do 13 Wilson & Co 1 " Do 15 Mr. Cox 1 "
Do 13, 14 Bill Dwife 2 Do 18. 1 " Do 19, 21 2 " Do 20. Gilbert, Prentiss & Tuttle 1 " Do 22. Bennett & Johnson 1 " Dey Street, 5, 7 Noel J. Becar 2 " Do 13 Wilson & Co 1 " Do 15 Mr. Cox 1 "
Do 19, 21 2 " Do 20 Gilbert, Prentiss & Tuttle 1 " Do 22 Bennett & Johnson 1 " Dey Street, 5, 7 Noel J. Becar 2 " Do 13 Wilson & Co 1 " Do 15 Mr. Cox 1 "
Do 20 Gilbert, Prentiss & Tuttle 1 " Do 22 Bennett & Johnson 1 " Dey Street, 5, 7 Noel J. Becar 2 " Do 13 Wilson & Co 1 " Do 15 Mr. Cox 1 "
Do 20 Gibert, Fremiss & Tuttle 1 Do 22 Bennett & Johnson 1 Dey Street, 5, 7 Noel J. Becar 2 Do 13 Wilson & Co 1 Do 15 Mr. Cox 1
Do 22 Befinett & Johnson 1 Dey Street, 5, 7. Noel J. Becar. 2 " Do 13 Wilson & Co. 1 " Do 15 Mr. Cox. 1 "
Do 13 Wilson & Co. 1 " Do 15 Mr. Cox. 1 "
Do 15 1 "
100 44 E. 11. Main
Do 46 1 "
Duane Street, 42 Archl. Iron Works G. H. Johnson 5-story " and Base. Sim. to Pl. VII.
Do . 68, 75 to 85 Mr. Palmer J. B. Snook 165 ft. "5-story. Sim. to Pl. XIX.
Do 71, 73 J. B. Snook J. B. Snook 50 ft. " and Basement.
Do 84, J. F. Duckworth 5-story "and Basement.
Do 116
Do and Reade 2 "
Do cor Chureh Dr. Lovejoy Amzi Hill 116 ft."
Do "Reade East River Bank 1 Store Front.
FifthAv. 23d St, B'way&24th A. R. Eno
Fourth Av Harlem Railroad Co Columns, &c., Engine Depot.
Do cor 23d Street
Franklin Street, 73 John Mack Renwick & Co 1 "Pl. XCII.
Do 91 " " " "
Do cor Franklin Pl
Do "Church W. Watson T. S. Wall 2 Store Fronts.
Do " 2 "
Front Street J. K. & E. B. Place E. L. Roberts 1 "
" 166 1 "

LOCATION. NEW YORK:	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
Fulton Street, 58, 60			2 Store Fronts.
Do 115			1 "
	M. Reily		
Do 186			
	Mr. Phyfe		
Do	Union Ferry Co	Kellum & Son	Fulton Ferry House.
Gouverneur's Lane			
Grand Street, cor. Chrystie	Lord & Taylor	Thomas & Son	200 ft "
Do "Allen	Mr. Donnelly	T S Wall	1 Store Front
Do "Allen Greenwich Street, 52			
			1
	A. T. Lagrave		
	Mr. Platt		1
	W. B. Astor		1
Howard Street,			1
Hudson St. 250			
	B. Newhouse		
	A. M. L. Scott		
	J. S. Hasbrook		
	Am. Express Co		
Irving Pl., " 15th	Manhattan Gas Co	. W. W. Gardiner	1 Office Front.
John St., 19	F. W. Lasak		1 Store Front.
	Mr. Young		1 "
	•••••		
	J. K. Herrick		
Leonard St.,71			
,			
	Paton & Co		
	Mr. Sniffin		
Liberty St., 25, 27			
	F. W. Lasak		
	1. W. Handin		
	J. M. Matthews		
	Murphy & Benedict		
	Mr. McBride		
	A. R. Eno		
	T. Strang		
	J. J. Henry		1
	• • • • • • • • • • • • • • • • • • • •		•
Ludlow St., near Houston			T
	B. R. Winthrop		
Madison Av			
Maiden Lane 2	W. H. Smith		1 Store Front.
	Mr. Young		
Do 6	W. H. Smith		
Do 8			
	Swan & Co		
Do 15 and 25	W. H. Smith		
	J. Fellowes & H. Young		
	Fellowes & Schell		
	J. E. Hyde's Sons		
Do 31	• • • • • • • • • • • • • • • • • • • •		1 "
Do 33	P. Murray		1 ""

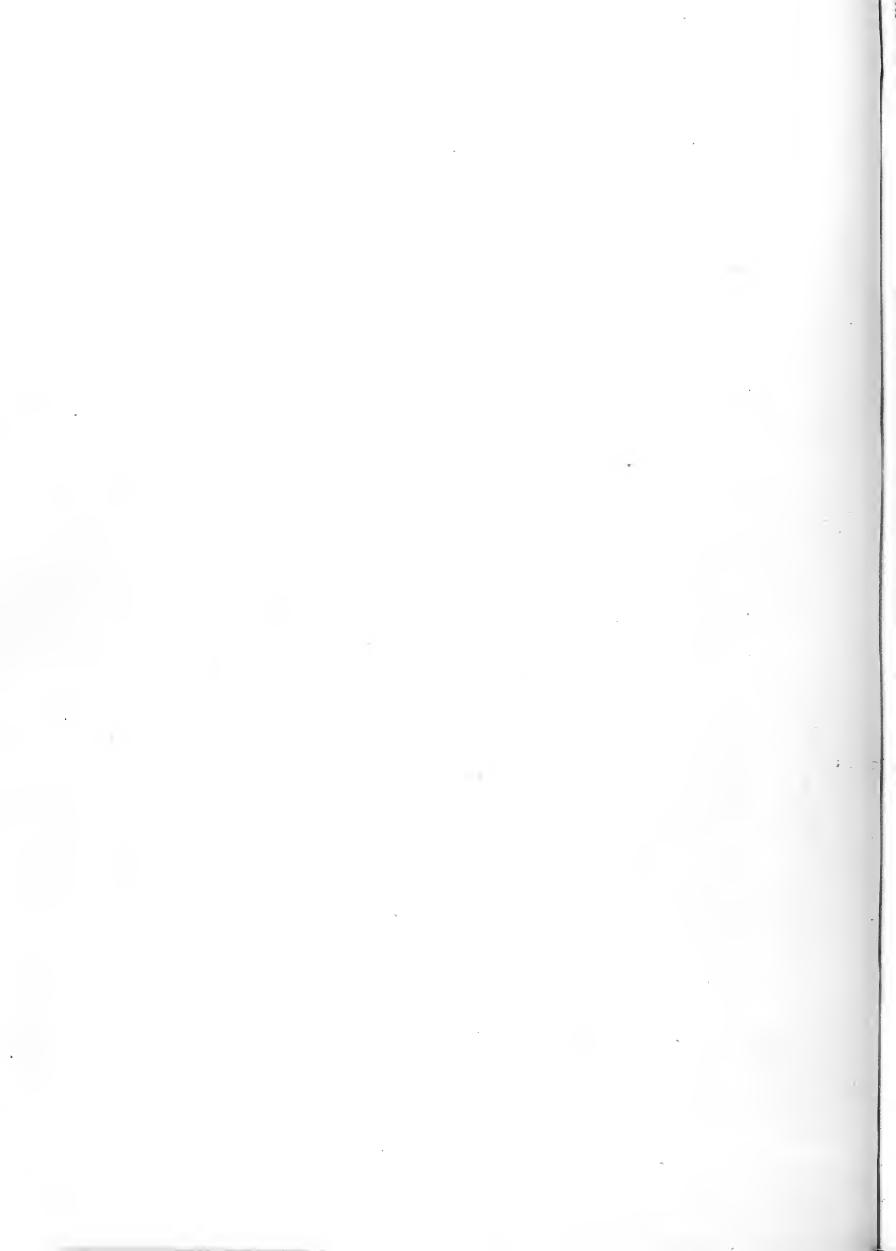
LOCATION. NEW YORK:		PROPRIETOR.	ARCHITECT.	DESCRIPTION.
MaidenLane, 35		I Murray		1 Store Front
Maiden La Do		17. Muliay		
Do				
		Λ. H. Wood		T
Do				
Do Do		W. B. Windle		1
Do		D. 31. /		
Do		R. Mortimer		
Do		R. & N. Dart		
Do	cor. Little Green.	Platt Bros		
Do		W. H. Smith		
Do		Est. of J. Duidam		
		4. m . Cl.		
Do				5-story Front and Basement.
Do		A. R. Eno		
Do		John Taylor		
Do		W. Gibson		
Mott St.,		0		Sewing Machine Manfy. Pl. IV. and VI.
e				
Do		E. Parmly		
Do		J. L. Platt		
$\mathbf{D}\mathbf{o}$		O. Thompson		
\mathbf{Do}		H. D. Aldrich		
D_0		Dr. Scott		
Do		A. Higgins		
Do		• • • • • • • • • • • • • • • • • • • •		
Do		Mr. Hutchings		
$\mathbf{D}\mathbf{o}$				
Do	47	W. Sturtevant	J. C. Wells	. 1 "
Do	49			. 1 "
Do				
Do	eor College Pl	Mr. Stevens		. 189 ft. "
Do				
$_{\mathrm{Do}}$		Dr. Hunter		1 "
Nassan S	t., 33			. 1 "
Do	$52, 54.\ldots$	C. & U. J. Smith		. 2 "
\mathbf{D} o		N. C. Platt		
$_{\mathrm{Do}}$	cor Maiden Lane.	Mr. Swan		
\mathbf{D} o		Mr. Taylor		. 1 "
Do		Mr. Youngs		. 1 "
New Wil	liam St.,.10	W. H. Smith		. 1 "
Park Pla	ce 3	F. Pares	King & Kellum	. 1 Store Front and Basement.
$\mathbf{D}\mathbf{o}$	$9, 11 \dots \dots$	E. Parmly		2 "
Do	$12\ldots\ldots$	Judge Roosevelt		1 "
$\mathbf{D}\mathbf{o}$	17	J. L. Platt		1 "
$_{\mathrm{Do}}$	19	O. Thompson		. 1 "
$\mathbf{D}\mathbf{o}$	21	E. B. Strange		. 1 "
$\mathbf{D}\mathbf{o}$		C. W. & J. T. Moore		
Do	College Pl.& Barclay	Chittenden, Bliss & Co	S. A. Warner	138 ft. "
Do		Lathrop & Ludington		117 ft. "
Do		Wm. Watson		167 ft. "
$\overline{\mathrm{Do}}$	"	W. G. Hunt & Co		
Do	" College Pl	Thomas Hunt		150 ft. "
Do		E. Parmly		
Do		D. B. St. John		2 "
Do		Christie & Constant		1 " and Basement.

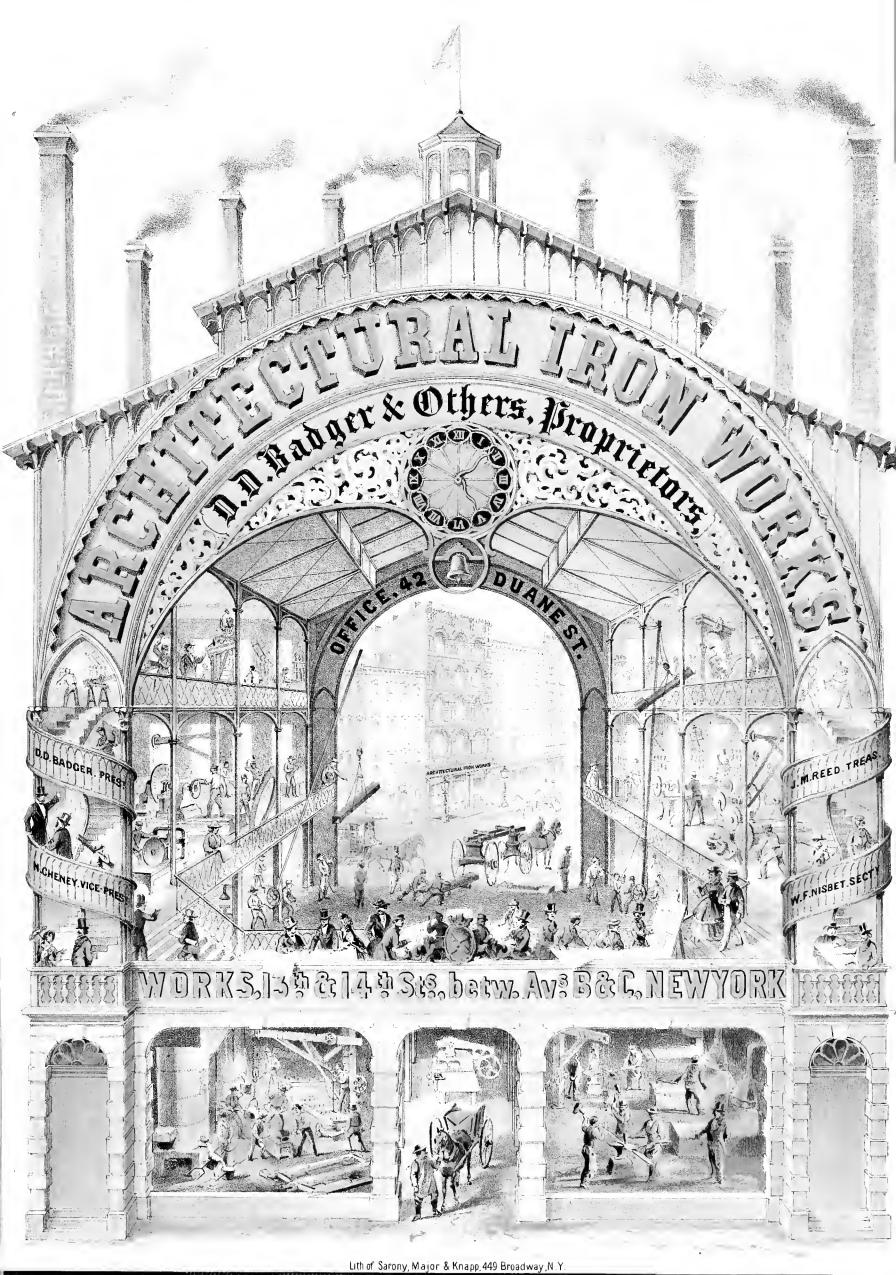
LOCATION. NEW YORK:	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
Park Place	T Sloenm		100 ft. Front.
	Spofford & Tileston		
Park Row, 13, 15	Mr. Bangs	e c	4
	W.B.Astor & J.J. Phelps.		
	H. V. Hendrick		
\mathbf{Do}	W. H. Cary	King & Kellum	2 "
Do	Mary Chesebrough	"	1 " and Basement.
	M. Halsted	"	1 "
	J. H. Coster	66	1 "
	R. Carmley	66	1 "
	P. Williams	66	1 "
	L. G. Morris	"	1 "
- -		"	1
			90 10.
Peck Slip, "Front	J. S. Harris & Co	R. G. Hatfield	103 ft. Front.
Pine St., 11	A. J. Cipriant		2-story Front.
Reade St., 74	Mr. Bradshaw		1 Store Front.
,	A. Higgins		
	Gilbert Estate		
	Read & Bradshaw		
Do " "			100 16.
	Bliss, Briggs & Douglas.		
	R. H. McCurdy		
	J. Q. Jones		
Sixth Avenue, No. 206	G. P. Rogers		1 Store Front.
	• • • • • • • • • • • • • • • • • • • •		
Third Ave., cor. 34th St	H. Hughes	do	. 56 feet Store Front.
Third and Fourth Av., Astor	8		Inside Cast Iron Work.
	Peter Cooper	F A Potorgon	. 326 ft. Store Front, Cooper Inst., and all
Twenty-fourth Street			
			Main Cornice & Balust'de. Pl. XX., No. 93.
Vesey St., No. 22			
Do 36	S. Sutton		. 1 "
	J. Osborn		. 1 "
Do	S. Sutton		
W. H Ct. N. 04			50 ft. Store F'nt, 5-story, sim. to Pl. LVIII.
warker St., No. 24			50 ft. Store F'nt, 5-story, sim. to Pl. LVIII.
	M. H. Litchstein	King & Kellum	50 ft. Store F'nt, 5-story, sim. to Pl. LVIII.1 Store Front and Basement.
Do 36	M. H. Litchstein	King & Kellum	50 ft. Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 "
Do 36 Do 38	M. H. Litchstein T. Lewis Mr. Lewis	King & Kellum	50 ft. Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 "
Do 36 Do 38 Do 44	M. H. Litchstein T. Lewis Mr. Lewis G. Johnson	King & Kellum Thomas & Son	50 ft. Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 1 " 1 "
Do 36 Do 38 Do 44 Do 48,50	M. H. Litchstein T. Lewis Mr. Lewis G. Johnson Mr. Lane	King & Kellum Thomas & Son R. G. Hatfield	50 ft. Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 1 " 2 " [XV., No. 7.
Do 36 Do 38 Do 44 Do 48,50 Do 61	M. H. Litchstein. T. Lewis. Mr. Lewis. G. Johnson. Mr. Lane. Mrs. Goelet.	King & Kellum Thomas & Son R. G. Hatfield	50 ft. Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 2 " [XV., No. 7. 5-story Front and Basement, similar to Pl.
Do 36	M. H. Litchstein T. Lewis Mr. Lewis G. Johnson Mr. Lane Mrs. Goelet J. Lee	Thomas & Son R. G. Hatfield Kellum & Son	50 ft. Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 2 " [XV., No. 7. 5-story Front and Basement, similar to Pl. 5 " " sim. to Pl. CII.
Do 36	M. H. Litchstein T. Lewis Mr. Lewis G. Johnson Mr. Lane Mrs. Goelet J. Lee	Thomas & Son R. G. Hatfield Kellum & Son	50 ft. Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 2 " [XV., No. 7. 5-story Front and Basement, similar to Pl. 5 " " sim. to Pl. CII. 6 Store Fronts, 2-story, similar to Plate
Do 36	M. H. Litchstein T. Lewis Mr. Lewis G. Johnson Mr. Lane Mrs. Goelet J. Lee J. G. Pearson and others	Thomas & Son R. G. Hatfield Kellum & Son J. G. Pearson	1 Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 2 " [XV., No. 7. 5-story Front and Basement, similar to Pl. 5 " " sim. to Pl. CII. 6 Store Fronts, 2-story, similar to Plate XXXVII., No. 17.
Do 36	M. H. Litchstein T. Lewis Mr. Lewis G. Johnson Mr. Lane Mrs. Goelet J. Lee J. G. Pearson and others	Thomas & Son R. G. Hatfield Kellum & Son J. G. Pearson	1 Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 2 " [XV., No. 7. 5-story Front and Basement, similar to Pl. 5 " " sim. to Pl. CII. 6 Store Fronts, 2-story, similar to Plate XXXVII., No. 17. 1 Store Front.
Do 36	M. H. Litchstein T. Lewis Mr. Lewis G. Johnson Mr. Lane Mrs. Goelet J. Lee J. G. Pearson and others. Mechanics' Bank	King & Kellum Thomas & Son R. G. Hatfield Kellum & Son J. G. Pearson R. Upjohn & Co	50 ft. Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 2 " [XV., No. 7. 5-story Front and Basement, similar to Pl. 5 " " sim. to Pl. CII. 6 Store Fronts, 2-story, similar to Plate XXXVII., No. 17. 1 Store Front. Dome and Lantern, 126 feet circumference.
Do 36	M. H. Litchstein T. Lewis Mr. Lewis G. Johnson Mr. Lane Mrs. Goelet J. Lee J. G. Pearson and others Mechanics' Bank S. V. Hoffman	King & Kellum Thomas & Son R. G. Hatfield Kellum & Son J. G. Pearson R. Upjohn & Co	50 ft. Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 2 " [XV., No. 7. 5-story Front and Basement, similar to Pl. 5 " " sim. to Pl. CII. 6 Store Fronts, 2-story, similar to Plate XXXVII., No. 17. 1 Store Front. Dome and Lantern, 126 feet circumference. 2 Store Fronts.
Do 36	M. H. Litchstein T. Lewis Mr. Lewis G. Johnson Mr. Lane Mrs. Goelet J. Lee J. G. Pearson and others. Mechanics' Bank S. V. Hoffman A. M. Lyon	King & Kellum Thomas & Son R. G. Hatfield Kellum & Son J. G. Pearson R. Upjohn & Co	1 Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 2 " [XV., No. 7. 5-story Front and Basement, similar to Pl. 5 " " sim. to Pl. CII. 6 Store Fronts, 2-story, similar to Plate XXXVII., No. 17. 1 Store Front. Dome and Lantern, 126 feet circumference. 2 Store Fronts. 1 "
Do 36	M. H. Litchstein. T. Lewis. Mr. Lewis. G. Johnson. Mr. Lane. Mrs. Goelet. J. Lee. J. G. Pearson and others. Mechanics' Bank. S. V. Hoffman A. M. Lyon. J. Lee.	King & Kellum Thomas & Son R. G. Hatfield Kellum & Son J. G. Pearson R. Upjohn & Co R. G. Hatfield	50 ft. Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 2 " [XV., No. 7. 5-story Front and Basement, similar to Pl. 5 " " sim. to Pl. CII. 6 Store Fronts, 2-story, similar to Plate XXXVII., No. 17. 1 Store Front. Dome and Lantern, 126 feet circumference. 2 Store Fronts. 1 " 1 "
Do 36 Do 38 Do 44 Do 48,50 Do 61 Do Wall St., Nos. 8 to 20 Do 49 Do Warren St., Nos. 4, 6 Do 11 Do 12, 14	M. H. Litchstein T. Lewis Mr. Lewis G. Johnson Mr. Lane Mrs. Goelet J. Lee J. G. Pearson and others Mechanics' Bank S. V. Hoffman A. M. Lyon J. Lee A. Higgins	King & Kellum Thomas & Son R. G. Hatfield Kellum & Son J. G. Pearson R. Upjohn & Co R. G. Hatfield	50 ft. Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 2 " [XV., No. 7. 5-story Front and Basement, similar to Pl. 5 " " sim. to Pl. CII. 6 Store Fronts, 2-story, similar to Plate XXXVII., No. 17. 1 Store Front. Dome and Lantern, 126 feet circumference. 2 Store Fronts. 1 " 1 " 2 "
Do 36 Do 38 Do 44 Do 48,50 Do 61 Do Wall St., Nos. 8 to 20 Do 49 Do Warren St., Nos. 4, 6 Do 11 Do 12, 14	M. H. Litchstein T. Lewis Mr. Lewis G. Johnson Mr. Lane Mrs. Goelet J. Lee J. G. Pearson and others Mechanics' Bank S. V. Hoffman A. M. Lyon J. Lee A. Higgins	King & Kellum Thomas & Son R. G. Hatfield Kellum & Son J. G. Pearson R. Upjohn & Co R. G. Hatfield	50 ft. Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 2 " [XV., No. 7. 5-story Front and Basement, similar to Pl. 5 " " sim. to Pl. CII. 6 Store Fronts, 2-story, similar to Plate XXXVII., No. 17. 1 Store Front. Dome and Lantern, 126 feet circumference. 2 Store Fronts. 1 " 1 " 2 "
Do 36 Do 38 Do 44 Do 48,50 Do 61 Do Wall St., Nos. 8 to 20 Warren St., Nos. 4, 6 Do 8 Do 11 Do 12, 14 Do 15	M. H. Litchstein T. Lewis Mr. Lewis G. Johnson Mr. Lane Mrs. Goelet J. Lee J. G. Pearson and others Mechanics' Bank S. V. Hoffinan A. M. Lyon J. Lee A. Higgins F. E. Gilbert	King & Kellum Thomas & Son R. G. Hatfield Kellum & Son J. G. Pearson R. Upjohn & Co R. G. Hatfield	1 Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 2 " [XV., No. 7. 5-story Front and Basement, similar to Pl. 5 " " sim. to Pl. CII. 6 Store Fronts, 2-story, similar to Plate XXXVII., No. 17. 1 Store Front. Dome and Lantern, 126 feet circumference. 2 Store Fronts. 1 " 1 " 2 " 1 "
Do 36 Do 38 Do 44 Do 48,50 Do 61 Do Wall St., Nos. 8 to 20 Do 49 Do Warren St., Nos. 4, 6 Do 11 Do 12,14 Do 15 Do 16	M. H. Litchstein T. Lewis Mr. Lewis G. Johnson Mr. Lane Mrs. Goelet J. Lee J. G. Pearson and others Mechanics' Bank S. V. Hoffman A. M. Lyon J. Lee A. Higgins F. E. Gilbert T. March	King & Kellum Thomas & Son R. G. Hatfield Kellum & Son J. G. Pearson R. Upjohn & Co R. G. Hatfield	1 Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 2 " [XV., No. 7. 5-story Front and Basement, similar to Pl. 5 " " sim. to Pl. CII. 6 Store Fronts, 2-story, similar to Plate XXXVII., No. 17. 1 Store Front. Dome and Lantern, 126 feet circumference. 2 Store Fronts. 1 " 1 " 2 " 1 "
Do 36 Do 38 Do 44 Do 48,50 Do 61 Do Wall St., Nos. 8 to 20 Do 49 Do Warren St., Nos. 4, 6 Do 11 Do 12,14 Do 15 Do 16	M. H. Litchstein T. Lewis Mr. Lewis G. Johnson Mr. Lane Mrs. Goelet J. Lee J. G. Pearson and others Mechanics' Bank S. V. Hoffman A. M. Lyon J. Lee A. Higgins F. E. Gilbert T. March Henrys, Smith & Town-	King & Kellum Thomas & Son R. G. Hatfield Kellum & Son J. G. Pearson R. Upjohn & Co R. G. Hatfield	1 Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 2 " [XV., No. 7. 5-story Front and Basement, similar to Pl. 5 " " sim. to Pl. CII. 6 Store Fronts, 2-story, similar to Plate XXXVII., No. 17. 1 Store Front. Dome and Lantern, 126 feet circumference. 2 Store Fronts. 1 " 1 " 2 " 1 " 1 "
Do 36	M. H. Litchstein T. Lewis Mr. Lewis G. Johnson Mr. Lane Mrs. Goelet J. Lee J. G. Pearson and others Mechanics' Bank S. V. Hoffman A. M. Lyon J. Lee A. Higgins F. E. Gilbert T. March	King & Kellum Thomas & Son R. G. Hatfield Kellum & Son J. G. Pearson R. Upjohn & Co R. G. Hatfield	1 Store F'nt, 5-story, sim. to Pl. LVIII. 1 Store Front and Basement. 1 " 1 " 2 " [XV., No. 7. 5-story Front and Basement, similar to Pl. 5 " " sim. to Pl. CII. 6 Store Fronts, 2-story, similar to Plate XXXVII., No. 17. 1 Store Front. Dome and Lantern, 126 feet circumference. 2 Store Fronts. 1 " 1 " 2 " 1 " 2 "

LOCATION. NEW YORK:	PROPRIETOR.	ARCHITECT.	DESCRIP	TION.
	C. A. Bandonine	Mr. Gardiner	51 ft. Store Fro	ont.
	Mr. Martin			
	. Allan, McComb & Langle			
	T. U. Smith & J. J. Hen			
		•		
	C. A. Bandouine			
Do 41, 43	T. Suffern	J. W. Ritch	2 "	
Do 42	J. A. Stevens		1 "	
	Rogers & Walker			
	Mr. Center			
	F. E. Gilbert			
Do 55	Judge Whiting		1 "	
	Mrs. P. Bonnet			
	H. D. Aldrich			
Water St., No. 120				
	S. Kolmstamm			[Pl. CII.
	S. H. & J. E. Condict			tory, Basement and Rear,
Whitehall St				
	Corn Exchange			ı Exchange.
William St., No. 93				e
	A. B. &. D. Sands			
	B. A. Field			
	S. N. Livingston		1	l*
	Great Western Ins. Co			
Worth St				ront and Dasement.
	••••••		1 Store Front.	
	My Nagmith		50 ft 66	
Oswego, N. Y	Mr. Nesmith			
				Factory
Panama	T. Kingsford & Son			
Do		•••••	~	•
Peterboro', C. W				Plate XXVIII No. 65
Petersburg, Va	D A Paul	••••••	1 Store Front	11400 1121 1111., 110. 00.
	Lyon, Abraham & Davis			
PHILADELPHIA:	Lyon, Moranam & Davis	• • • • • • • • • • • • • • • • • • • •	1	
	. Jones, White & Oo		1 "	
The state of the s	W. H. Hart			
	A. Masson			
Do 51				
	. J. A. Gendell			
	. W. W. Keen			
	. J. A. Gendell			
Do 61				
Do 63				
Do 65	. Mr. Landreth		1 "	
	. Mr. Lewis			
Do 87				
	. W. W. Keen			
Do 123	. S. H. Hoxie			
	. Bailey & Co			
	. J. F. Fisher			
	. Dr. Swaim			Swaim's Building.
Do	. Jules Harrel		1 Store Front.	
	Λ			

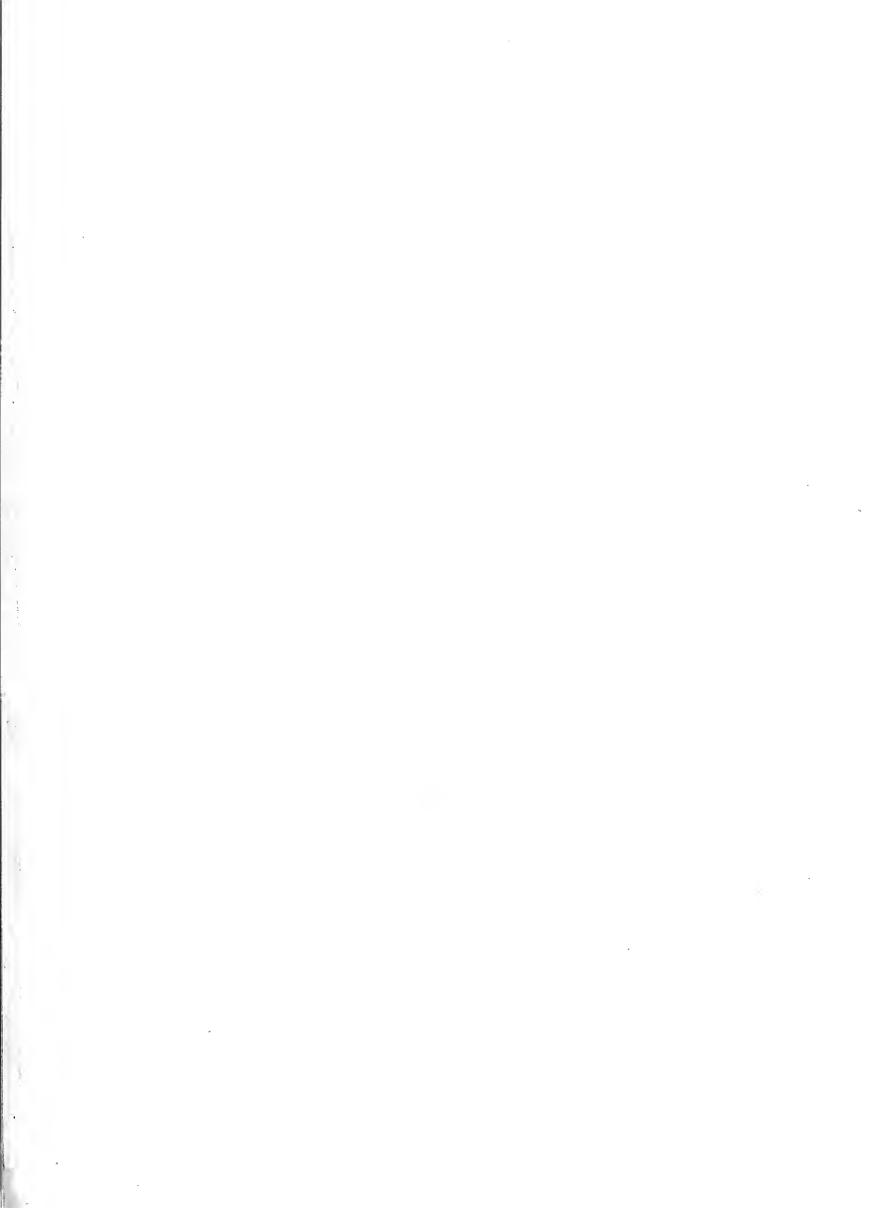
LOCATION. PHILADELPHIA:	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
	Mr. Dunbar	200000000000000000000000000000000000000	2 Store Fronts. Pl. XXIV., No. 25.
	. Girard Estate		
Do	. Williamson & Mellor		3 " Pl. LXIV., No. 25.
	A. Foit		
	C. C. Cope		
	Williamson & Mellor		
Do	Mr. Dunbar		2 "
Market St., No., 81	C. H. Fisher.		1 Store Front.
Do 147	M. L. Hollowell.		Rolling Shutters for Front.
	Mr. Madora		
	D. Landrith		
	R. T. Shepherd		
	W. Ford		
	J. A. Gendell		
	W. W. Keen		
	Mr. Ballinger		
	Mr. Fassit		
	Siegur, Lamb & Co		
	Faust & Wineburne		
	Mr. Stone		1
	Towns & Sharpless		
wasnington Ave	Fenn. Ranroad Co	G. H. Johnson	Grain Warehouse. Plates LX., LXI., LXII.
D	Bar ST		107×125 ft. 5 stories. Fire-proof.
PITTSBURG, Penn			
	A. A. Mason & Co		
	C. H. Paulson		
	J. Brown		
Pittsfield, Mass			
	Plumpkit & Hartbut		
PORTLAND, Me	H. N. Jose		2 Store Fronts.
Providence, R. I			
	Tolman & Bucklin		
_	Wm. Andrews		
	Mr. Duncan		8 "
	S. Dexter		
	B. D. Wheedon		
	H. Rogers		
	J. Arnold		
RICHMOND, Va			
	W. Barrett		
	Kent, Payne & Kent		
	J. P. Ballard		1 Store Front.
Do	O. A. Stryker		Rolling Shutters for Front.
Rio Janeiro, Brazil	Dr. T. Rainey	J. Whyte	Ferry Ho., 100 ft. Front. Pl. LXXXVIII.
Rochester, N. Y	Elwanger & Barry		75 feet Store Front.
Do	Mr. Erricson		86 " "
Do	W. A. Reynolds		58 " "
	Samuel Wilder		
Do	D. W. Powers		1 "
Rome, N. Y	Hill, Brothers & Co		1 "
Sacramento, Cal			1 "
San Francisco, Cal	R. M. Sherman		2 Store Fronts.
Do	G. R. Jackson & Co		1 Store Front.
Do	J. B. Snook		
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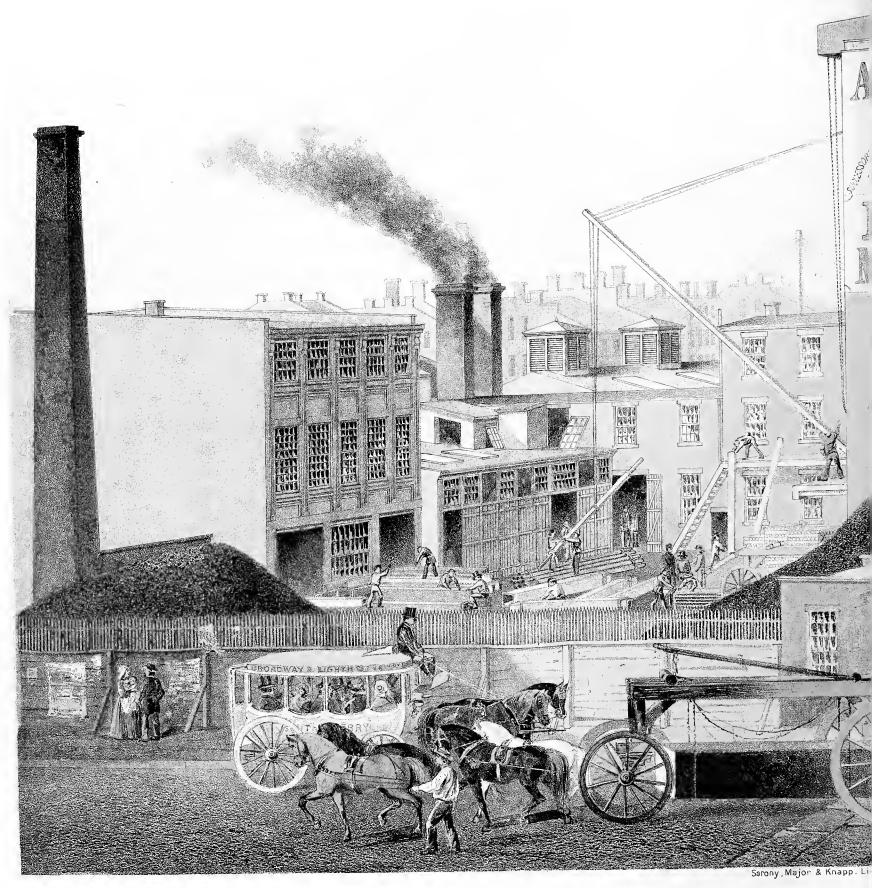
LOCATION.	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
San Francisco, Cal		· · · · · · · · · · · · · · · · · · ·	34 feet Store Front.
SAVANNAH, Ga	S. C. Deming		2 Store Fronts.
Scranton, Penn	Mr. Shopland		1 Store Front.
SHARON SPRINGS, N. Y		L. Burgher	Pavillion over Spring.
Springfield, Mass	Foot & Co		4 Store Fronts.
Do	D. W. Barnes	A. L. Chapin	1 Store Front.
	John Madden		
Stamford, Conn	Augustus Weed	M. B. Wolsey	38 feet Store Front and Balcony.
Syracuse, N. Y	Dillaye, Brothers		3 Store Fronts.
Troy, N. Y			
	Jacobs & Caswell		
	Troy City Bank		
	L. Smith	_	
Troy, Penn			
Utica, N. Y			
Vickseurg, Miss			
WATERVLIET, N. Y			Arsenal Storehouse, 100 by 196 feet. Pl.
Do			Arsenal. Iron Work.
Washington, D. C	do		Extension Congressional Library.
Do	do		Patent Iron Lathing Extension, Treasury
Do			Iron Work, Ford's Theatre. [Build'g.
WILMINGTON, N. C	W. A. Barry		1 Store Front.









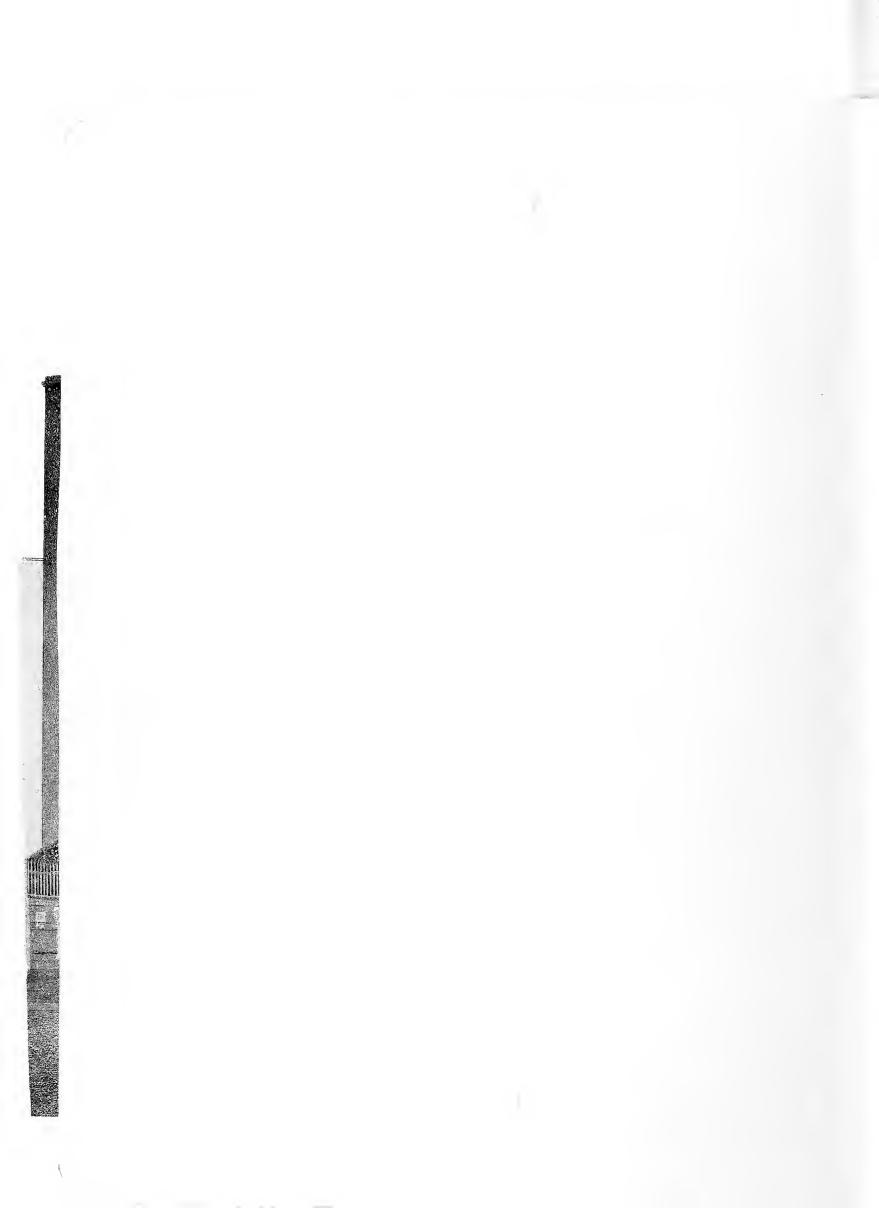


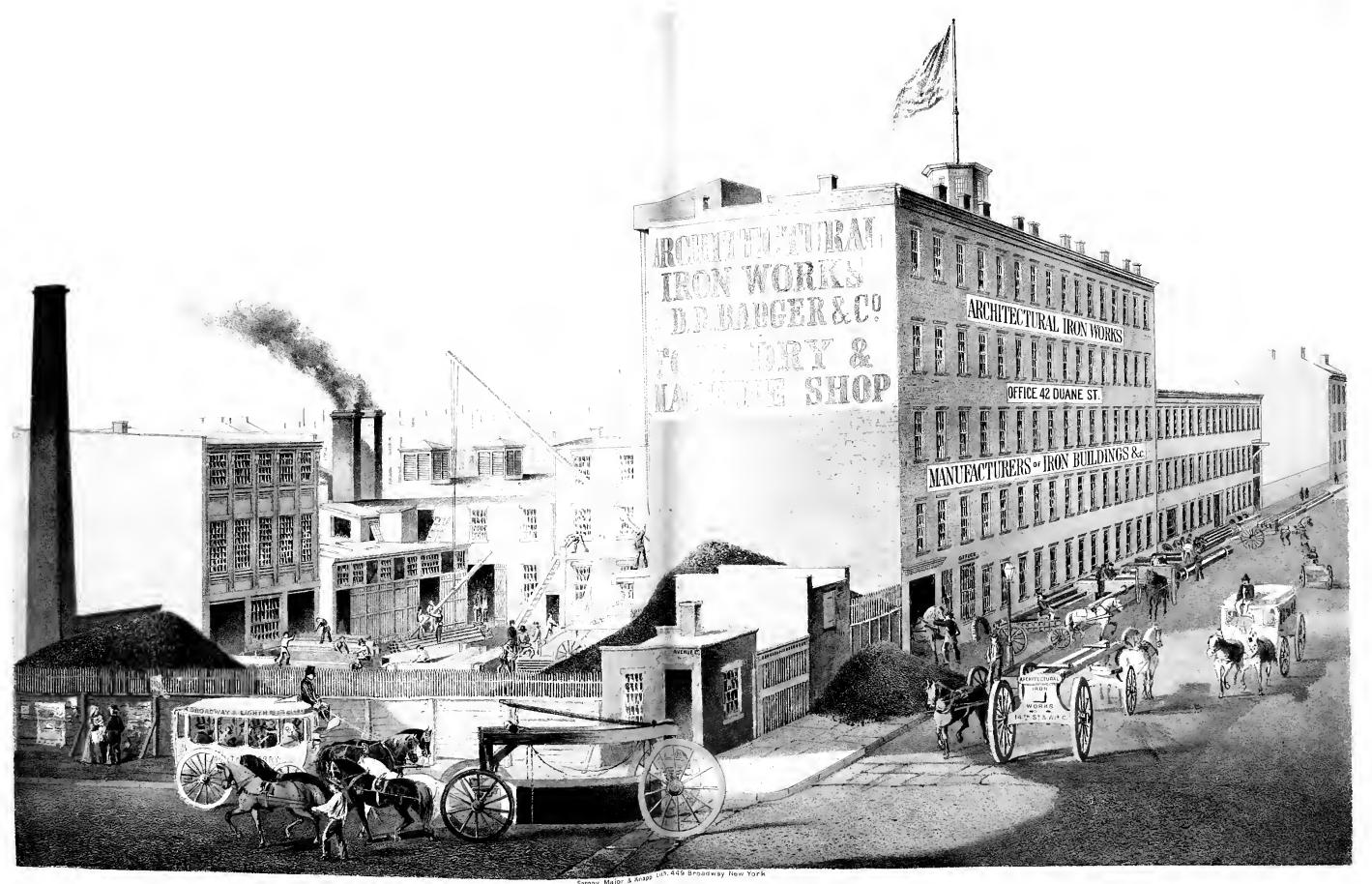
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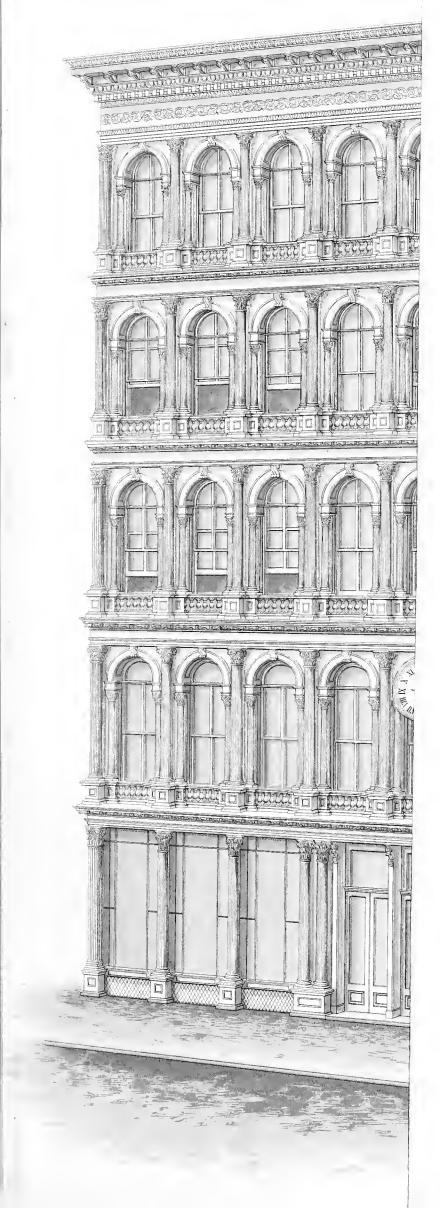
T RIVER, NEW YORK.

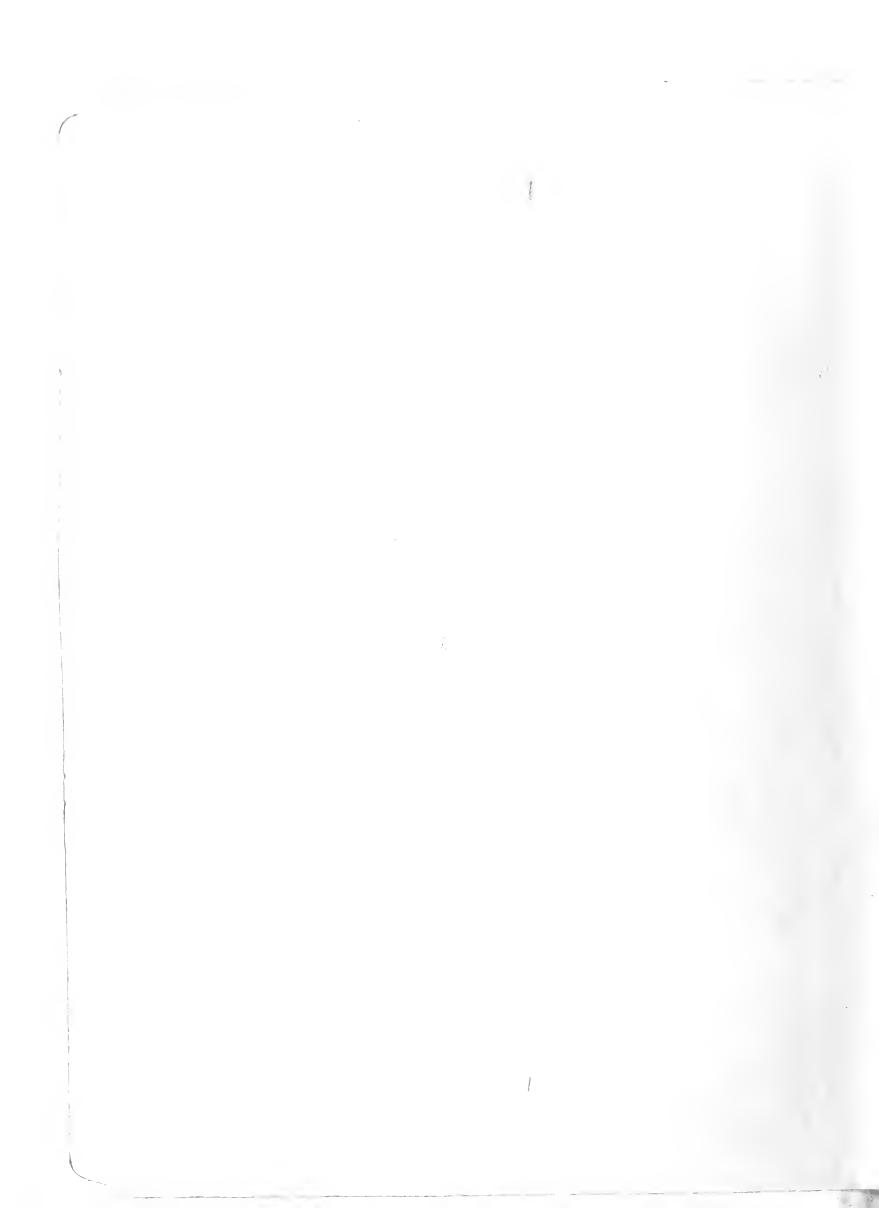


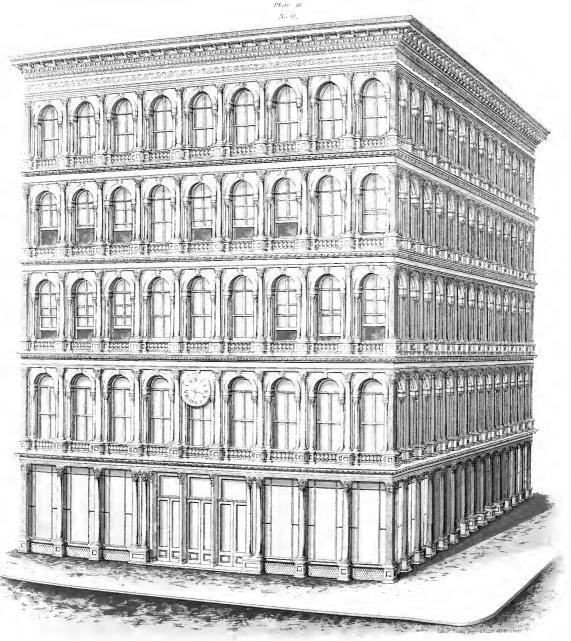


VIEW DE THE ARCHITECTURAL IRON WORKS









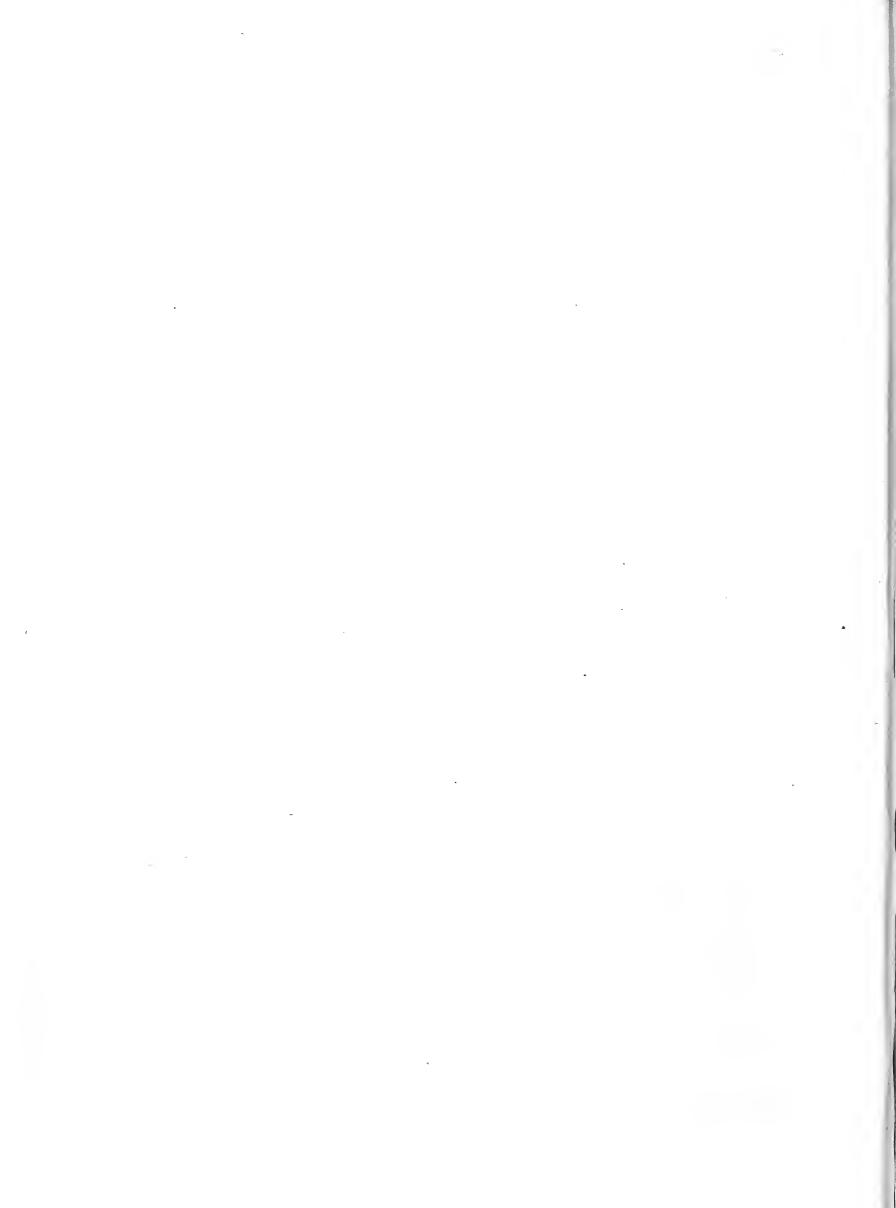
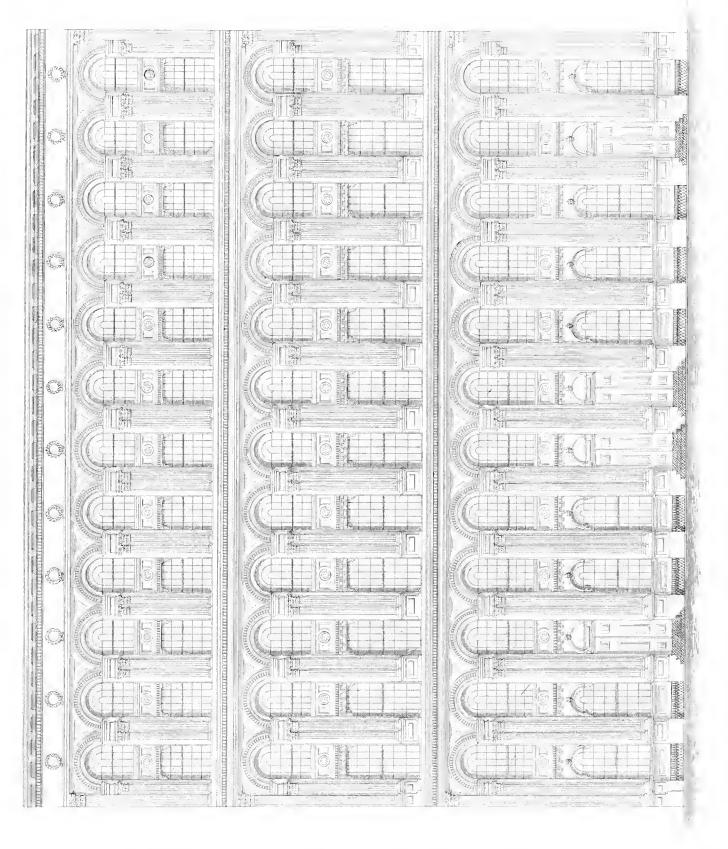


Plate A

Front Blevation A M Singer & Cos Sewing Machine Manufactory



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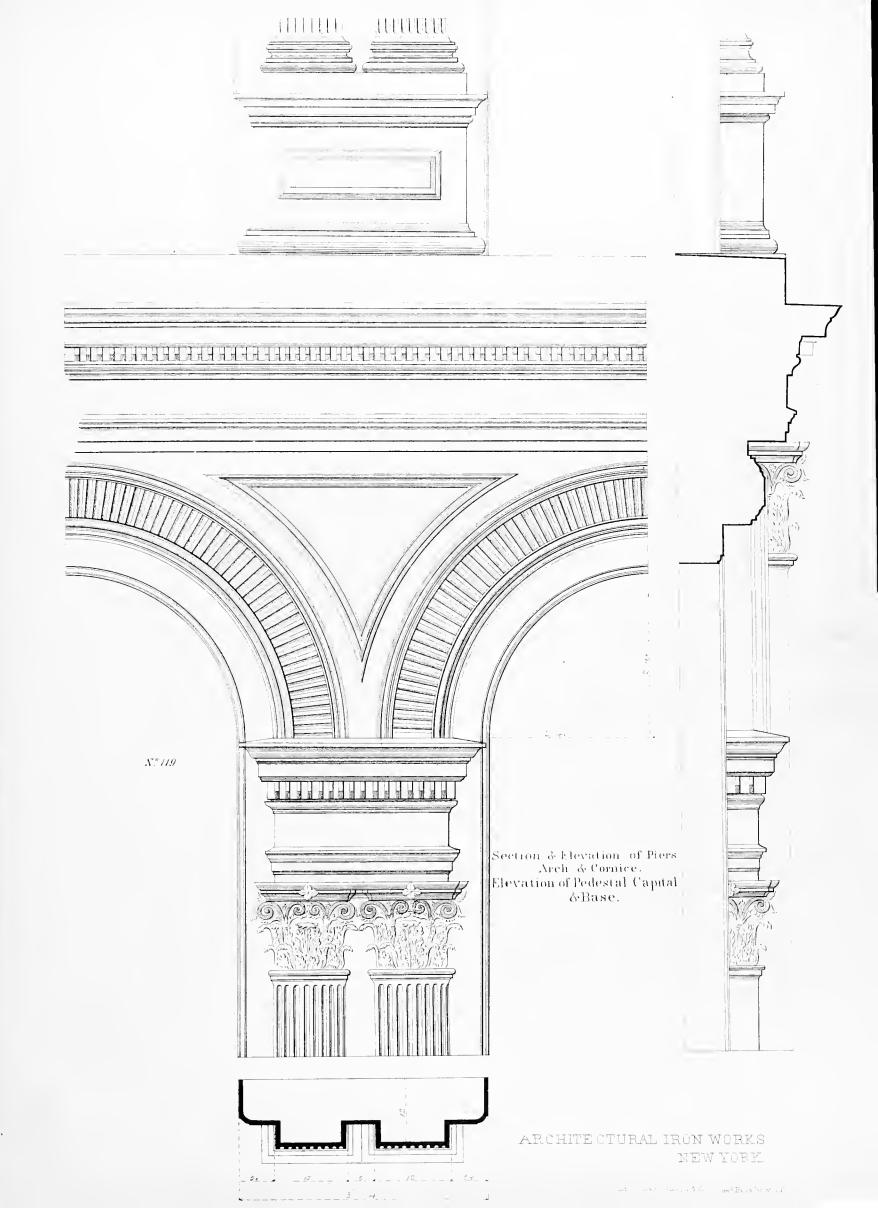
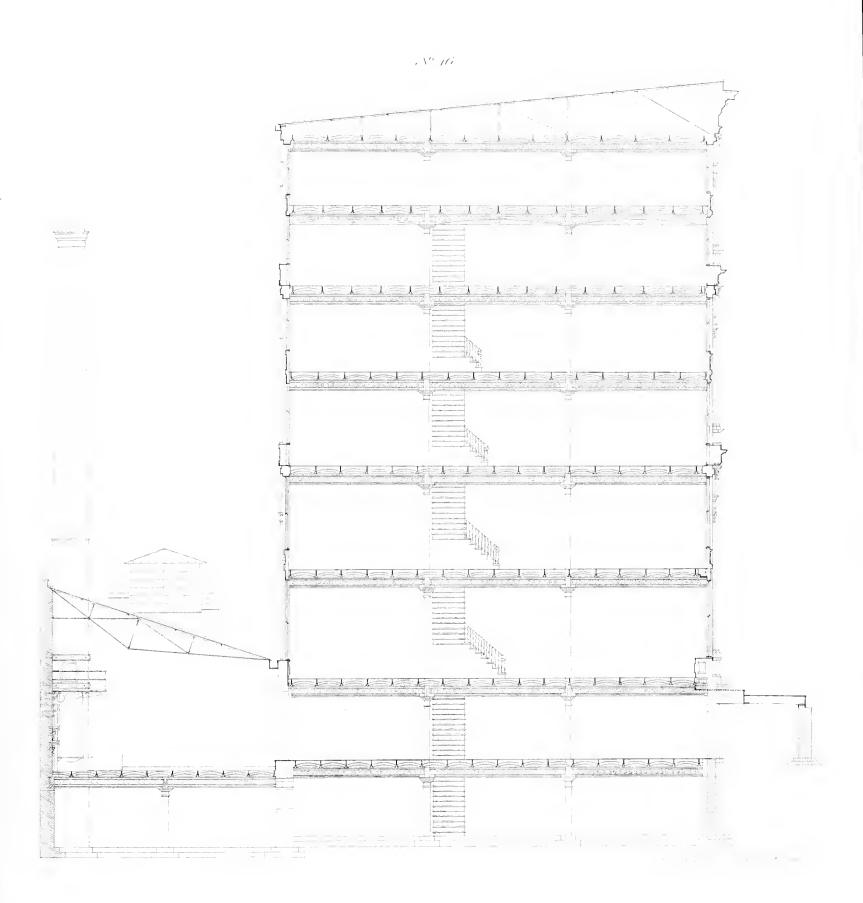
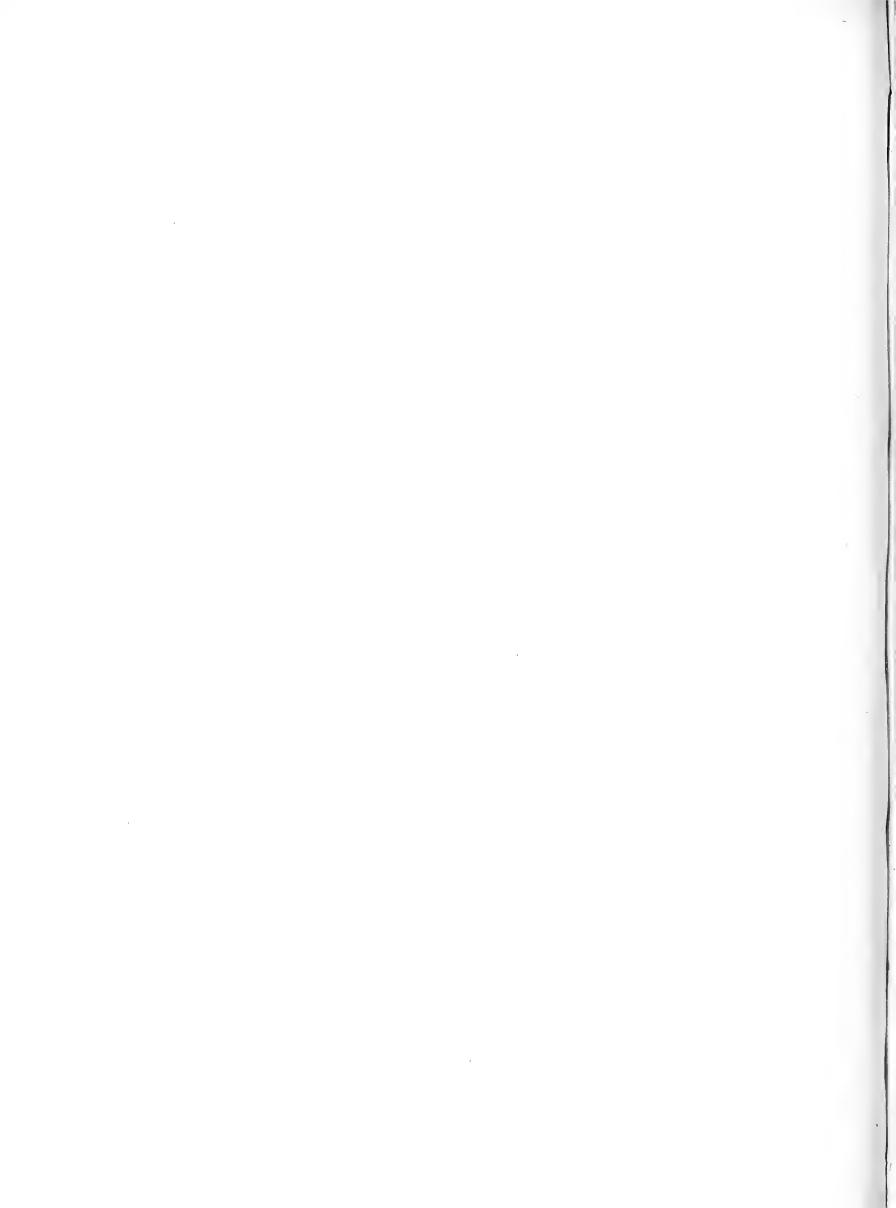


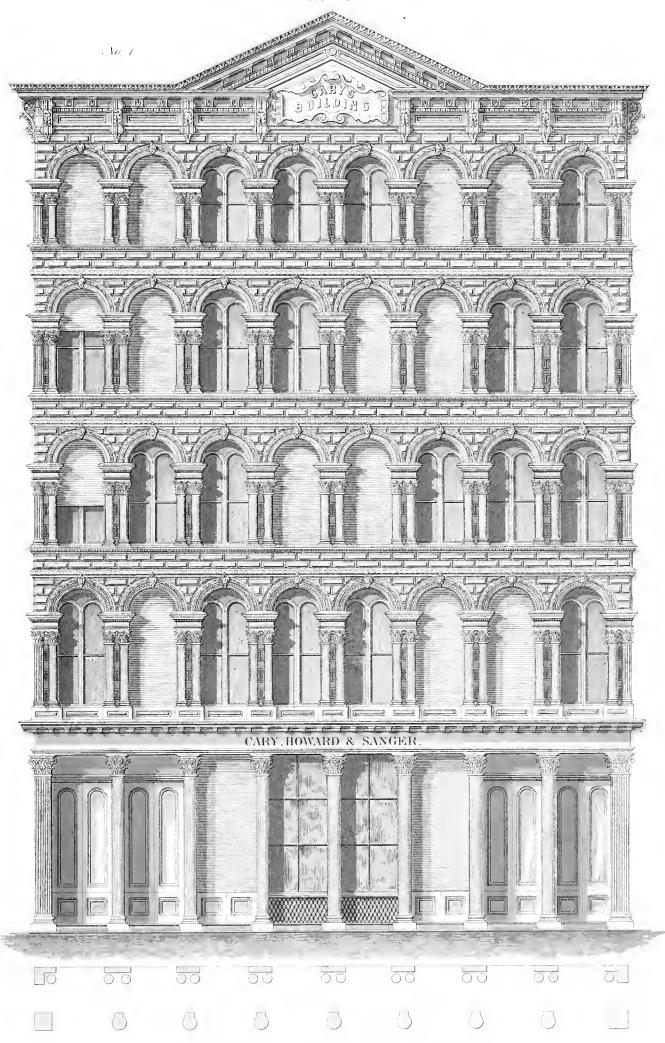


Plate 17
Section of Singer Building.

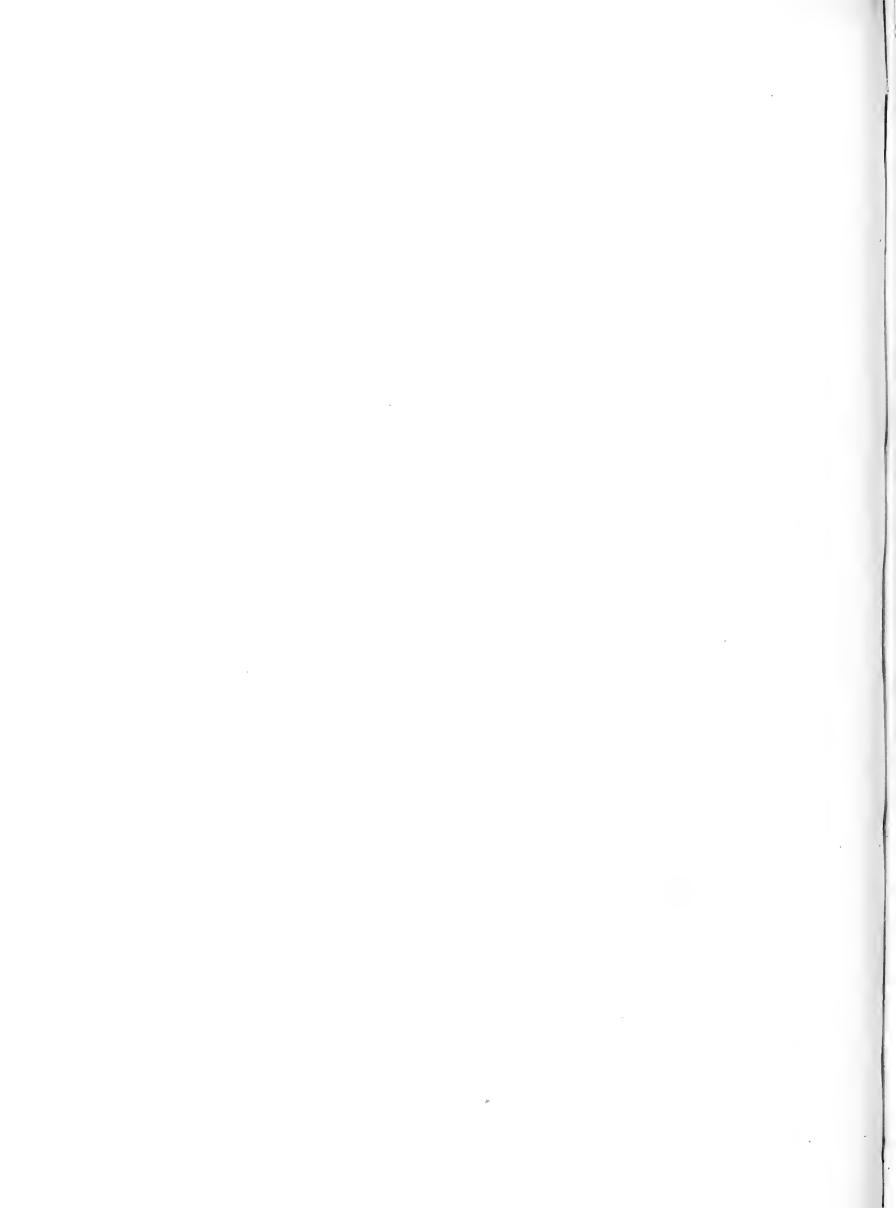


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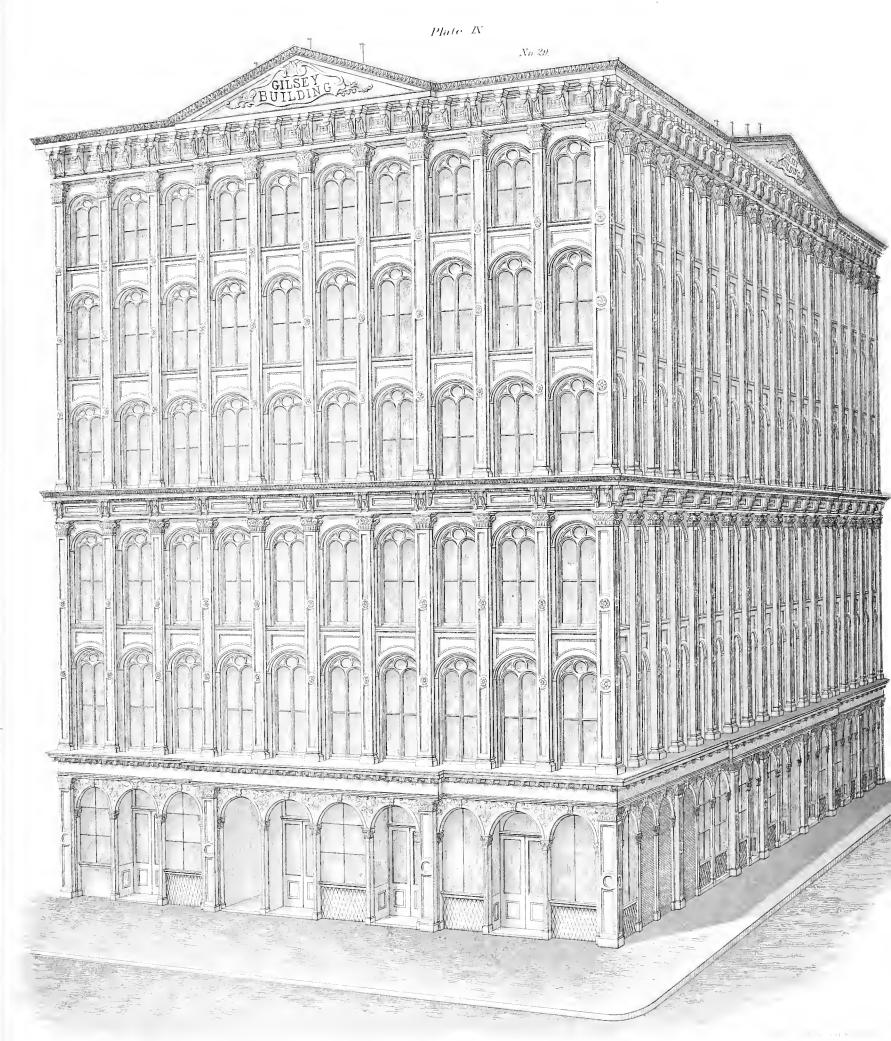


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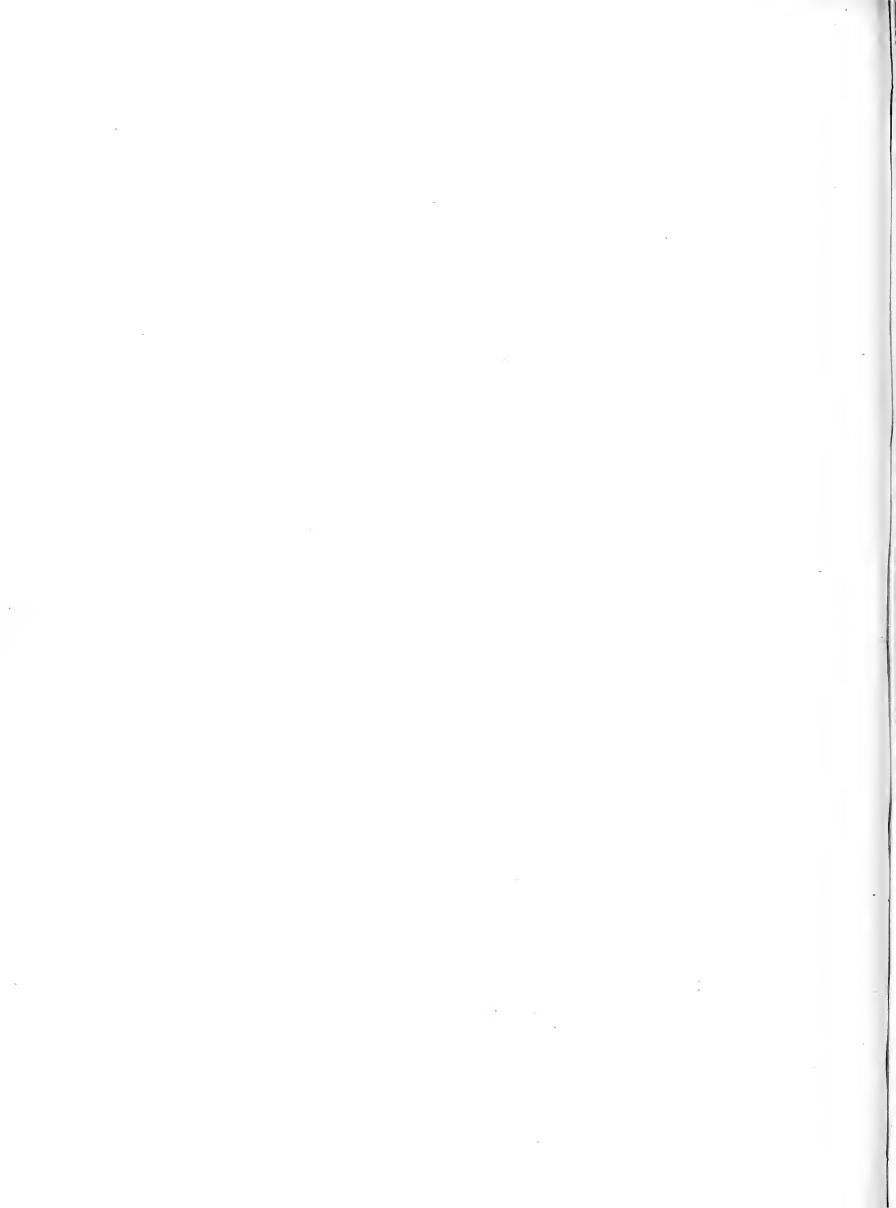


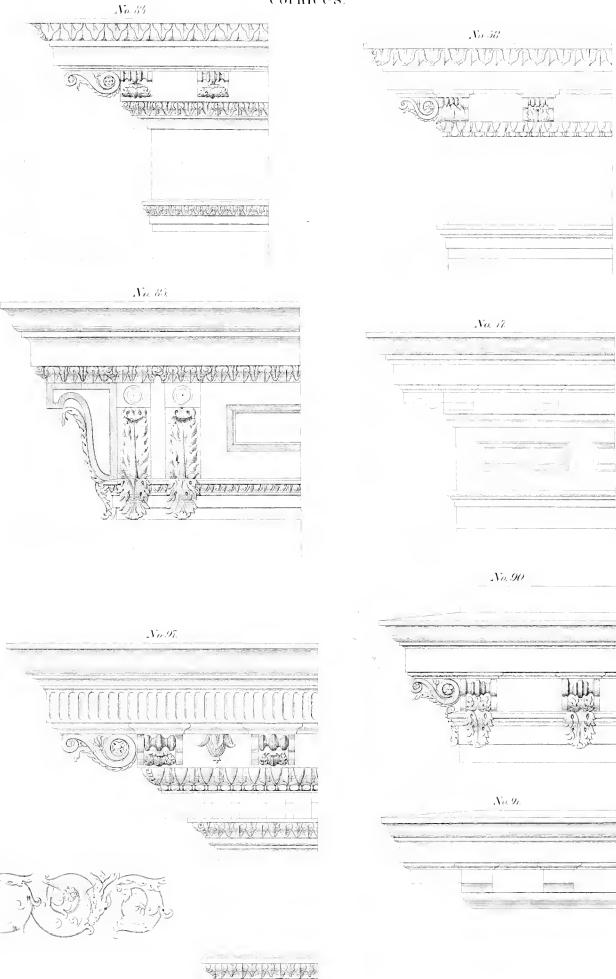
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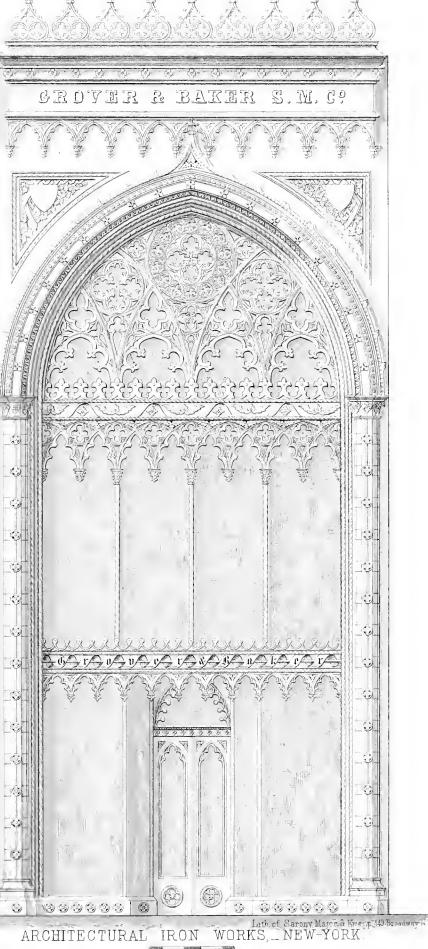


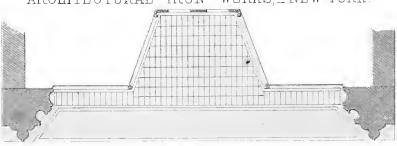
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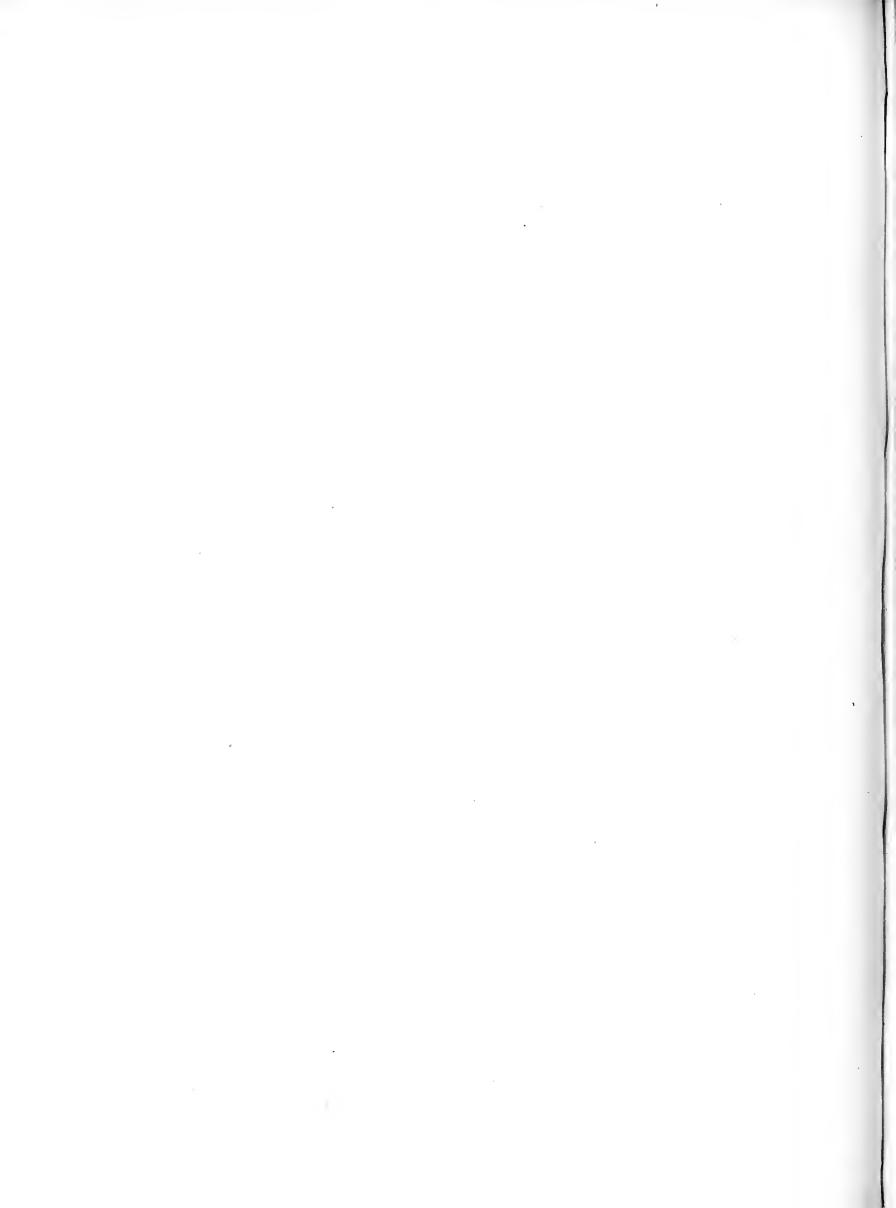




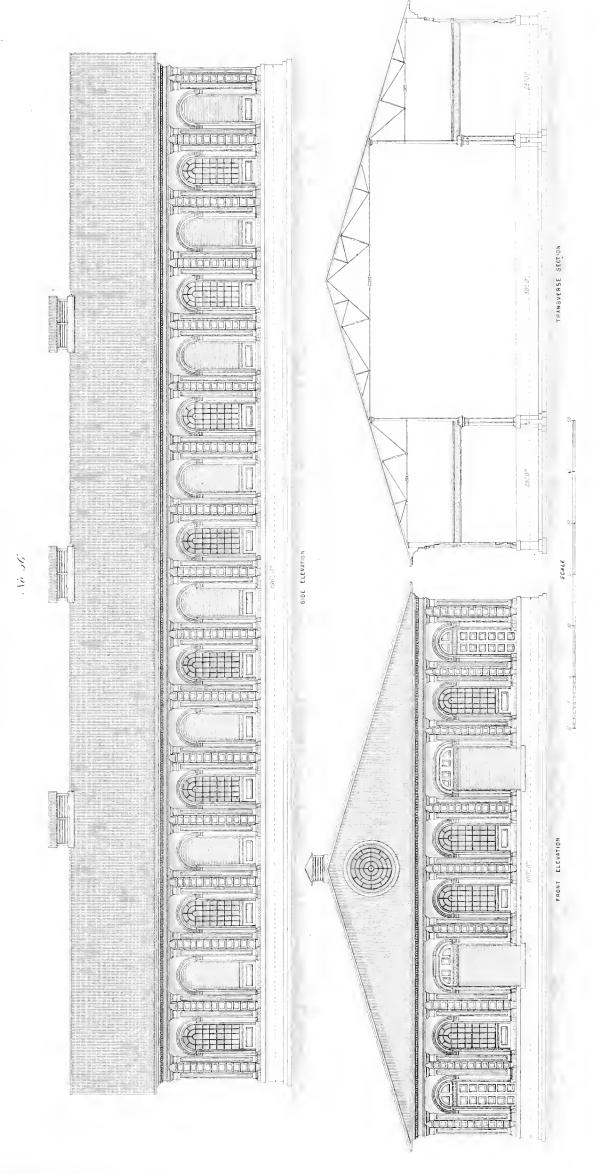
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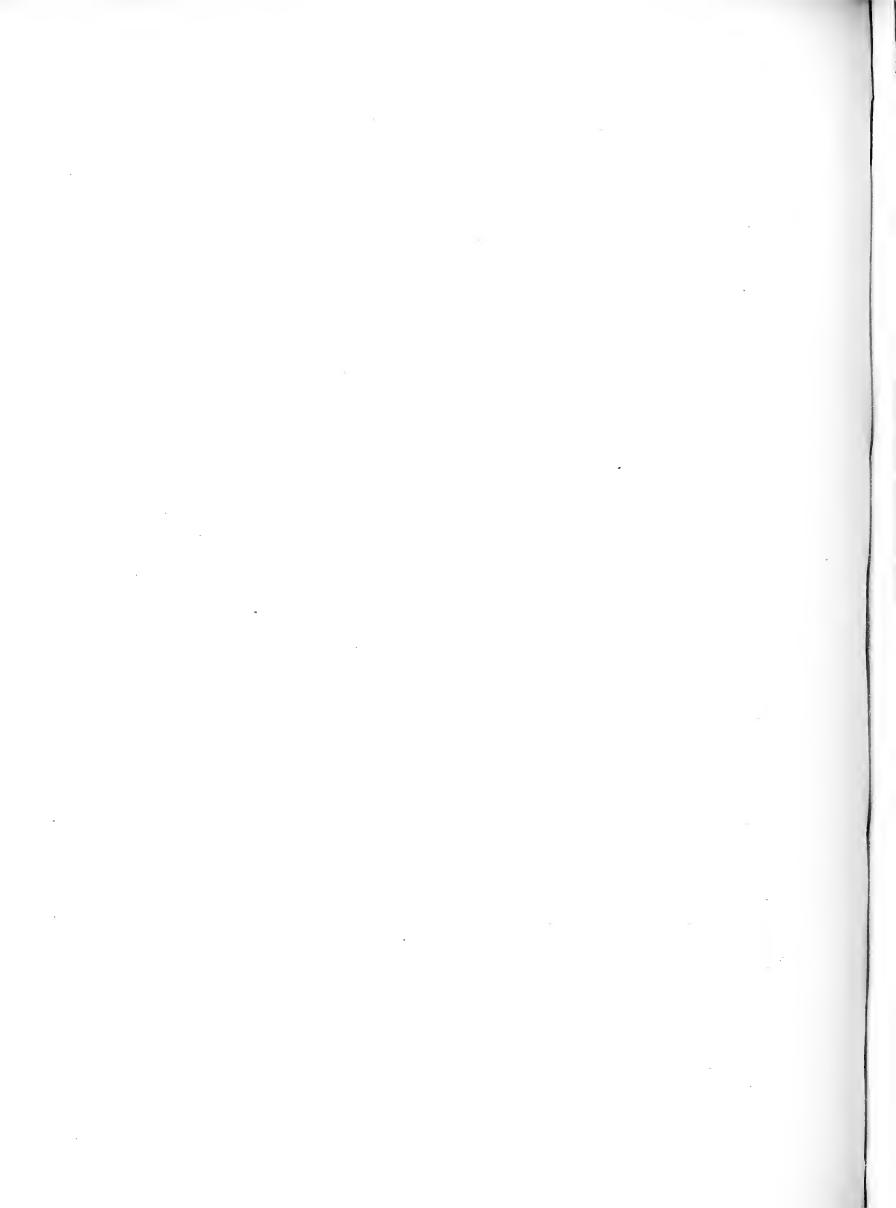


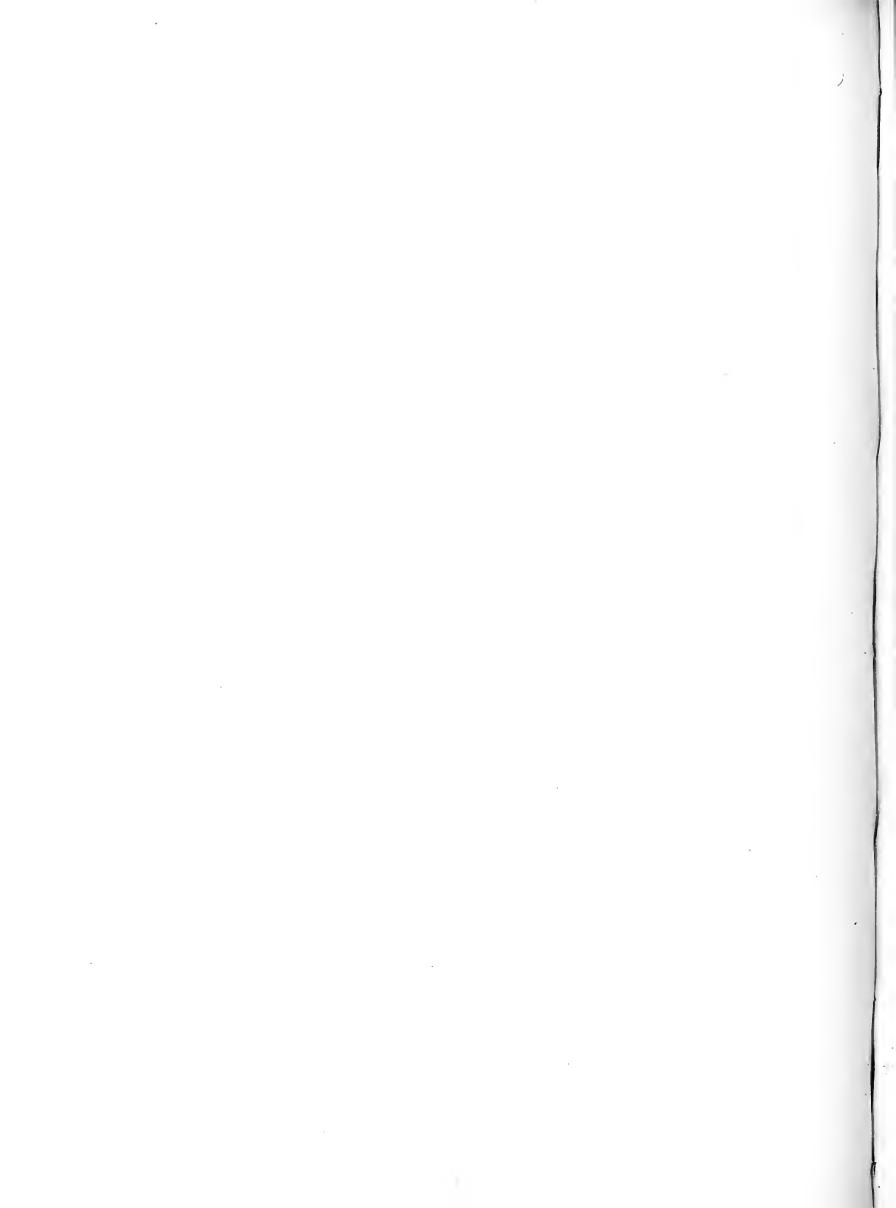


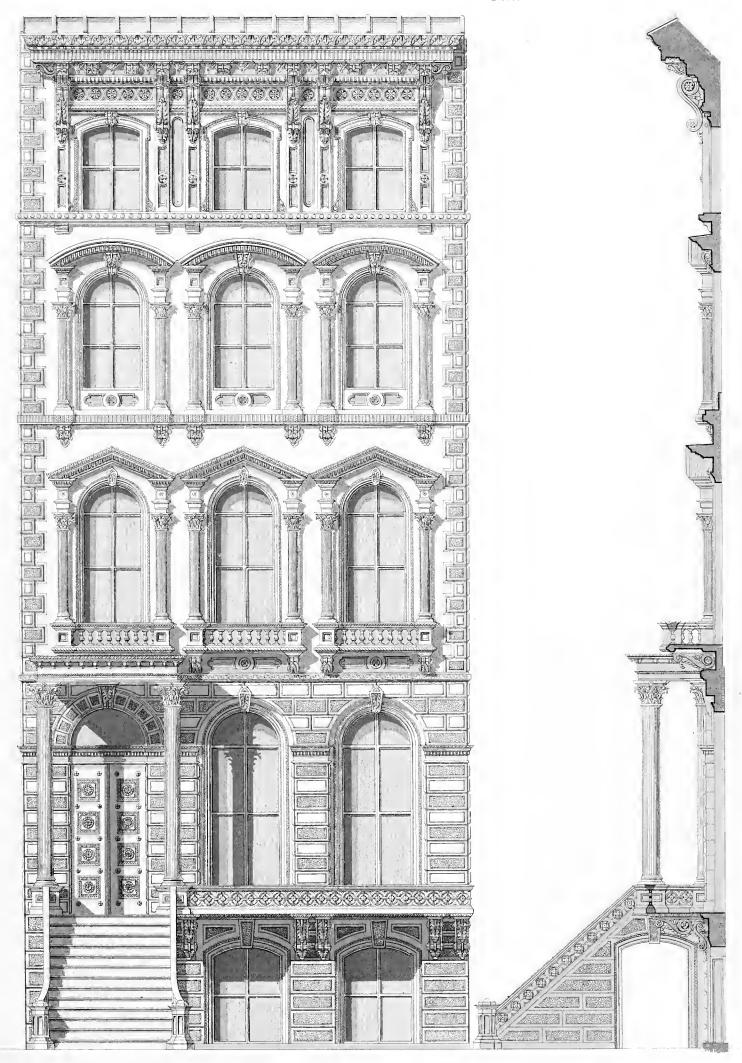
from Store House for U.S. Arsenal, Watervleit, N.Y.

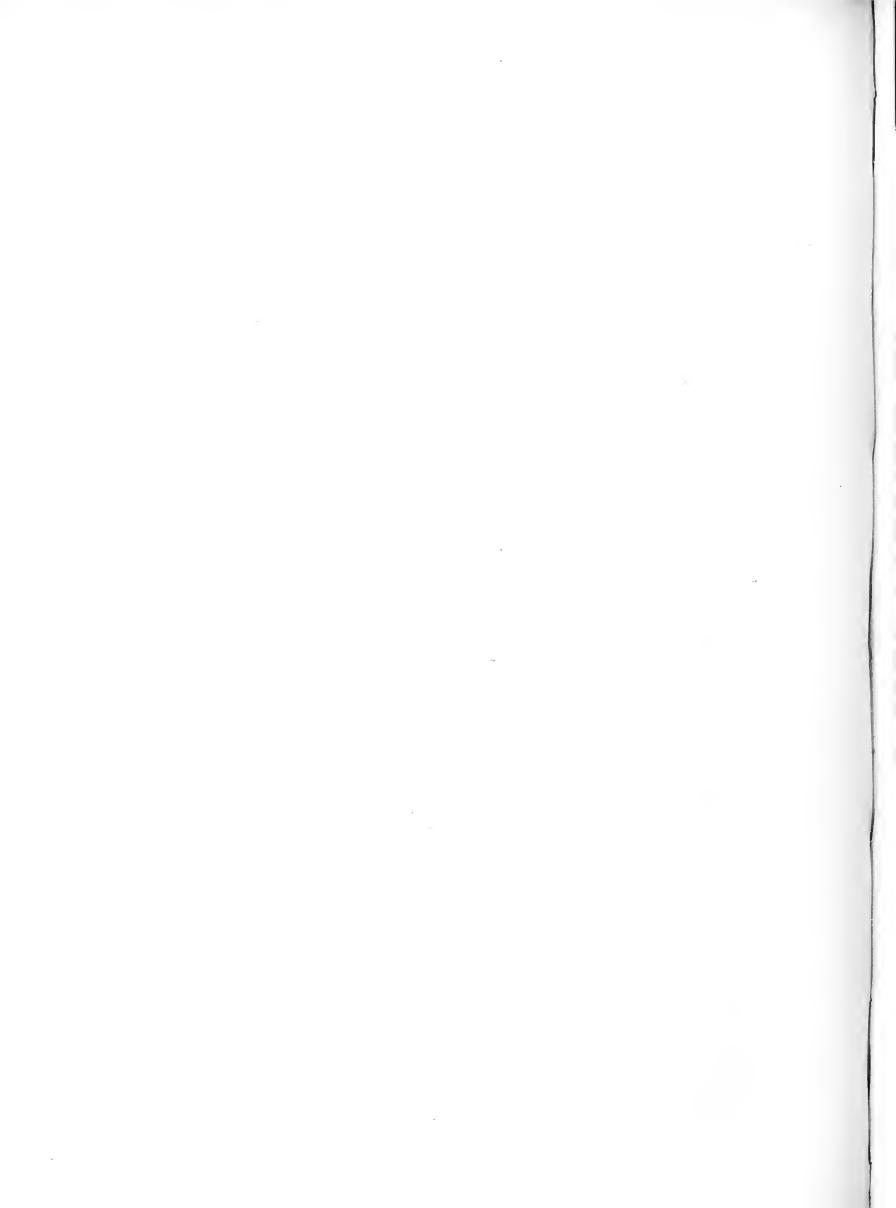


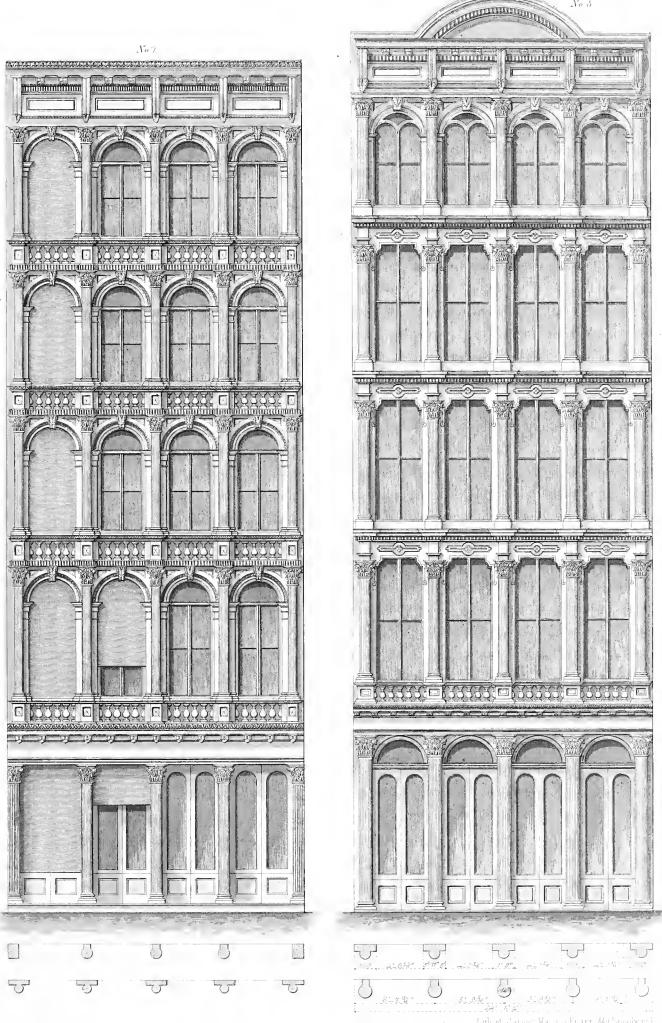
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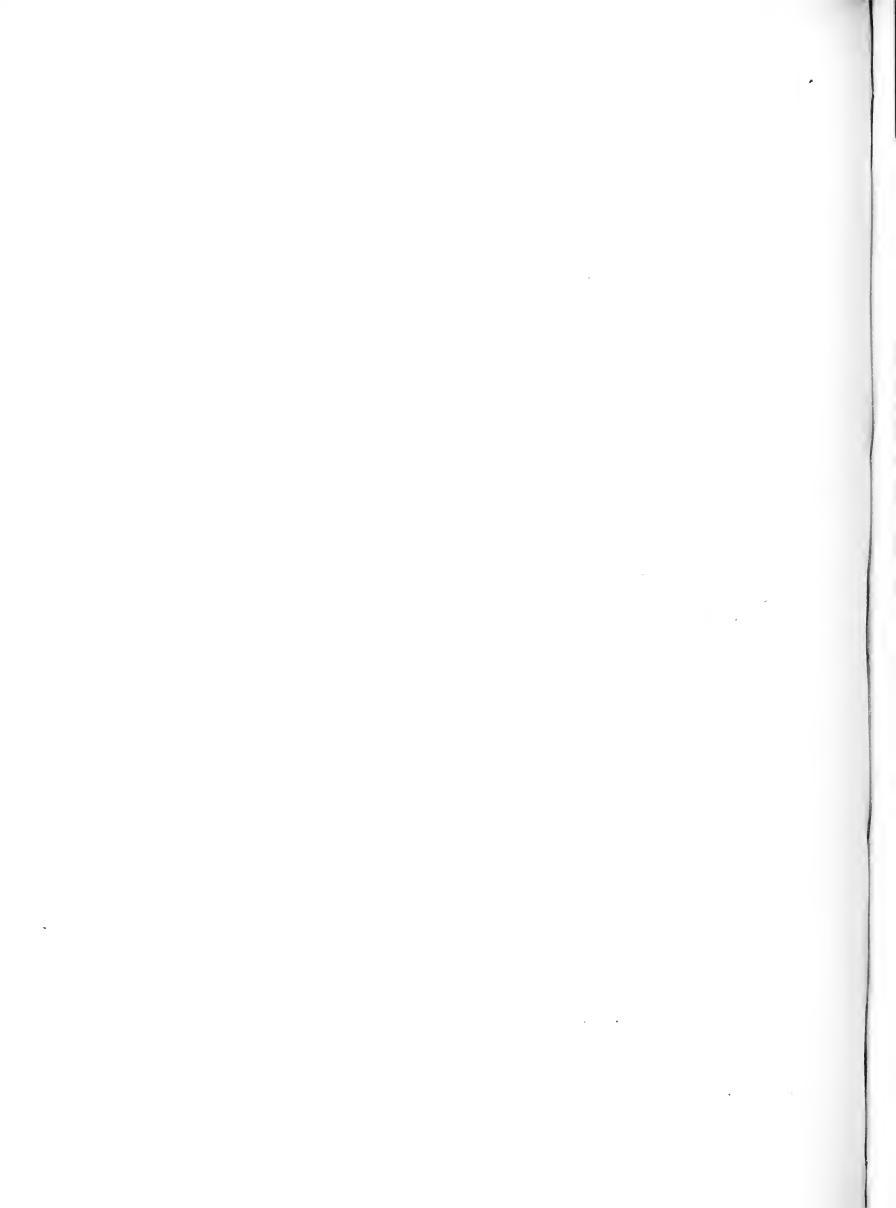




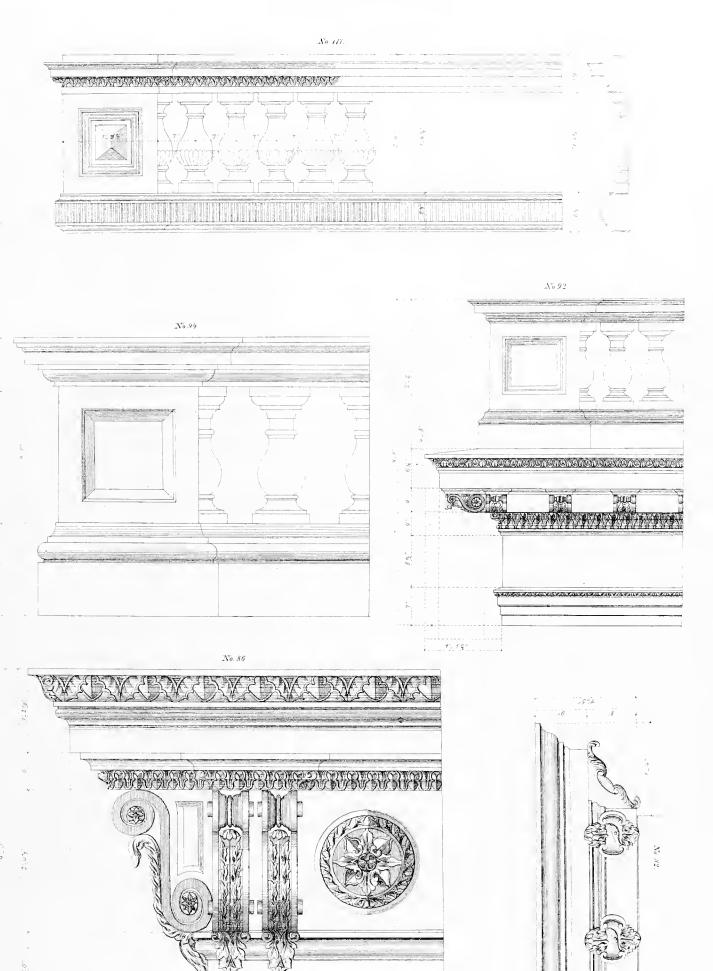




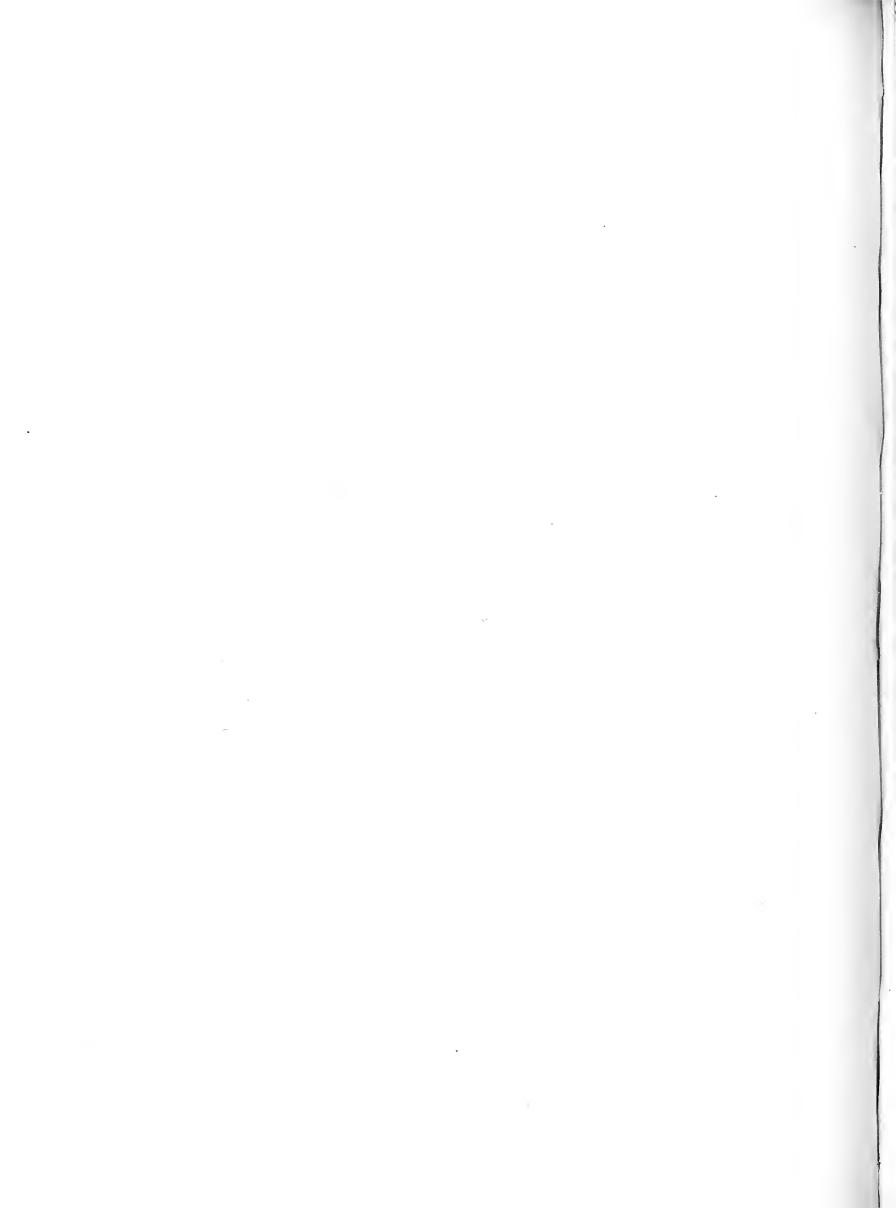
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Connees Balustrades and Pedestals

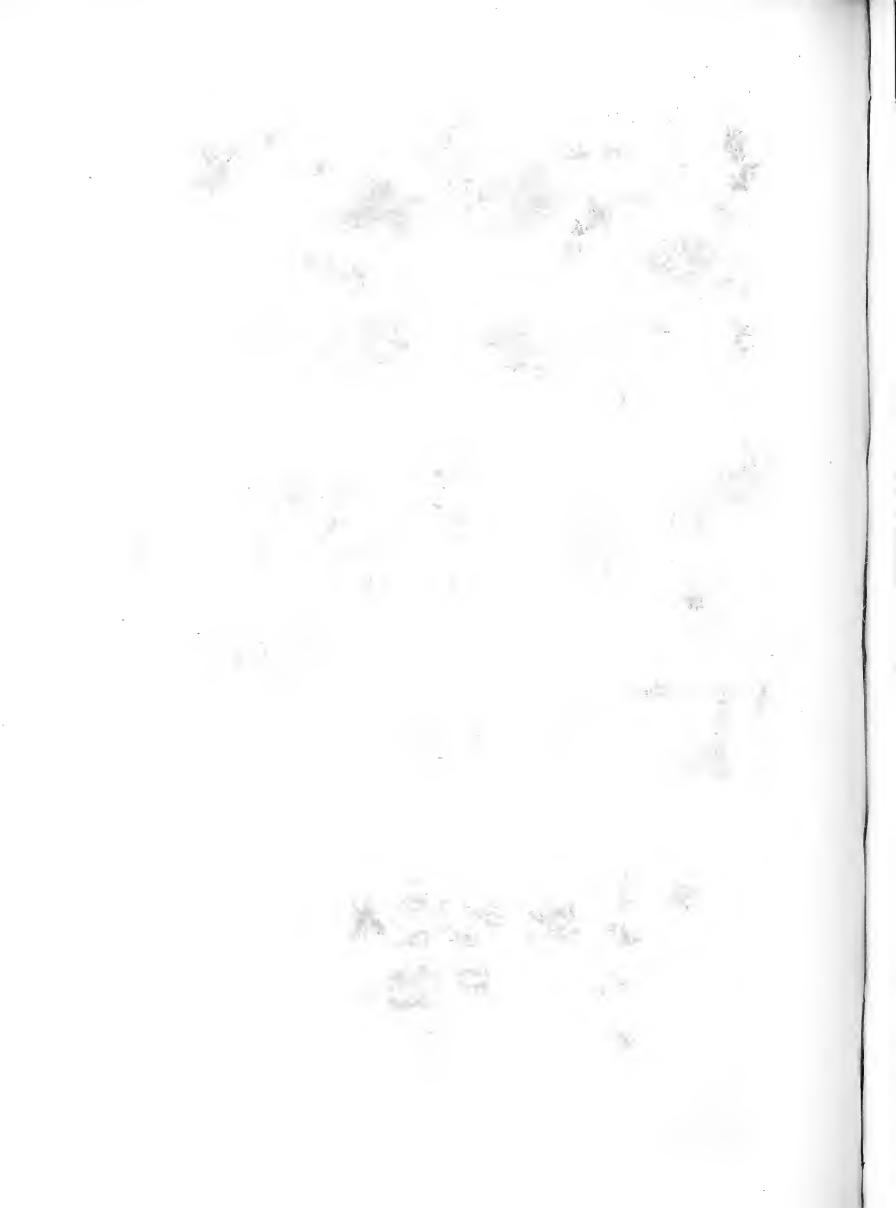


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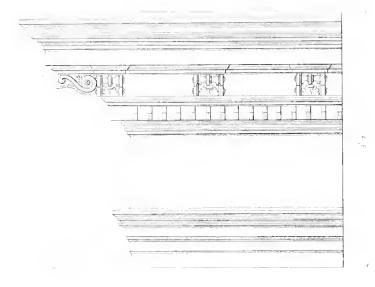
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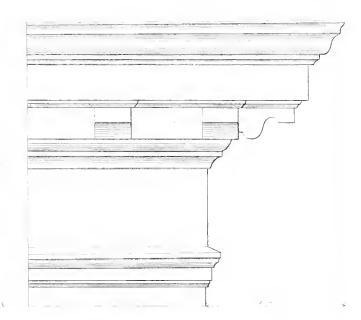
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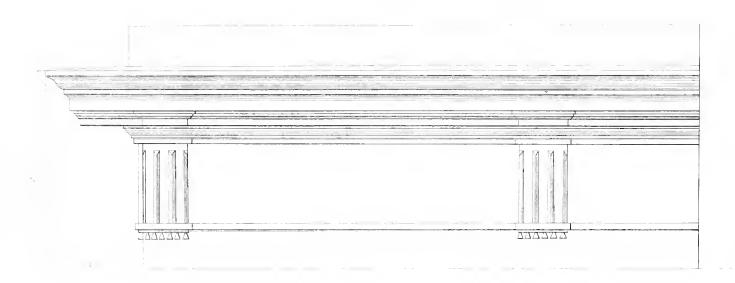
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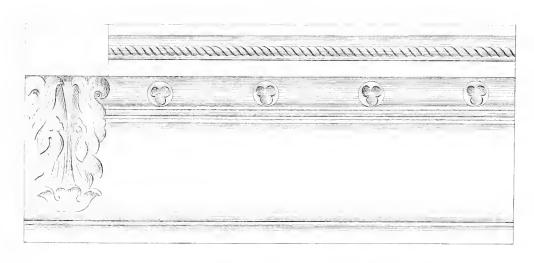


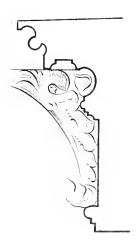


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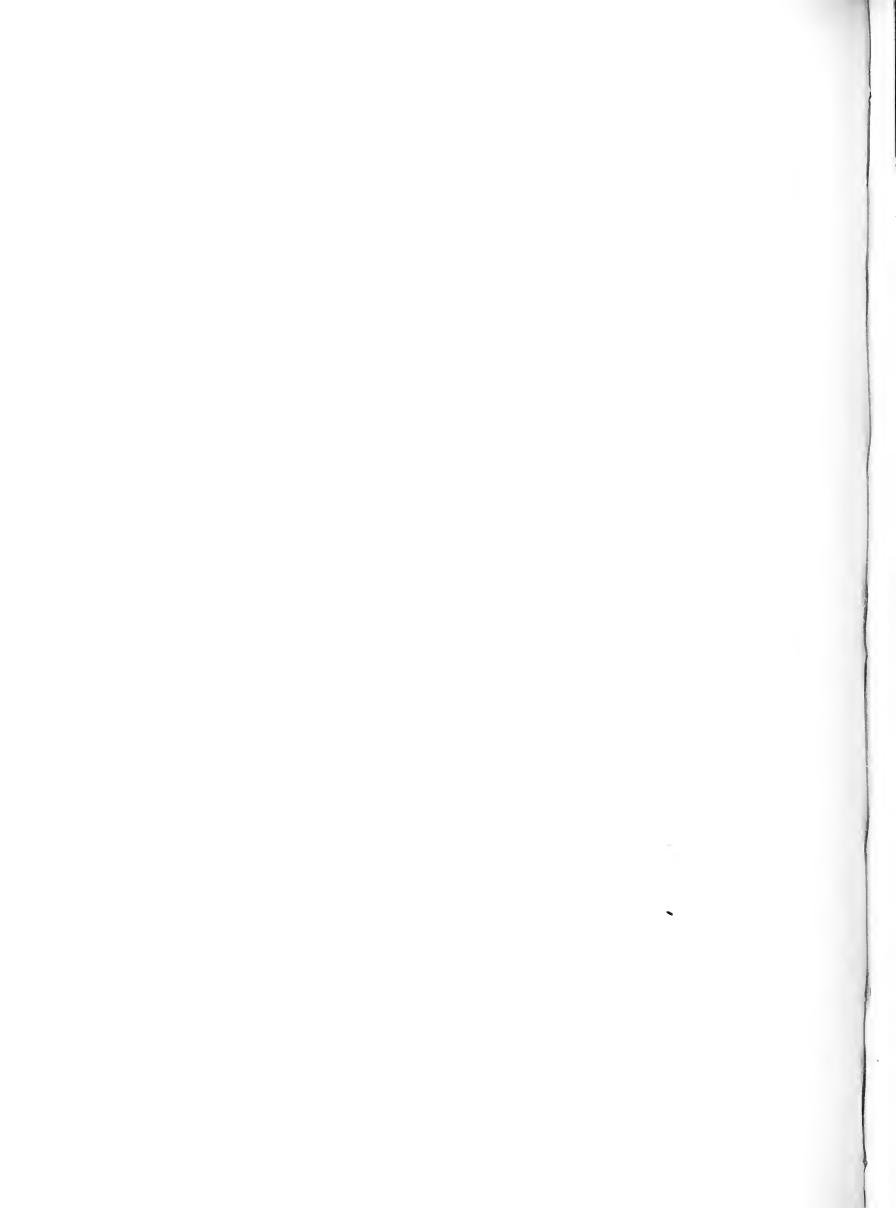


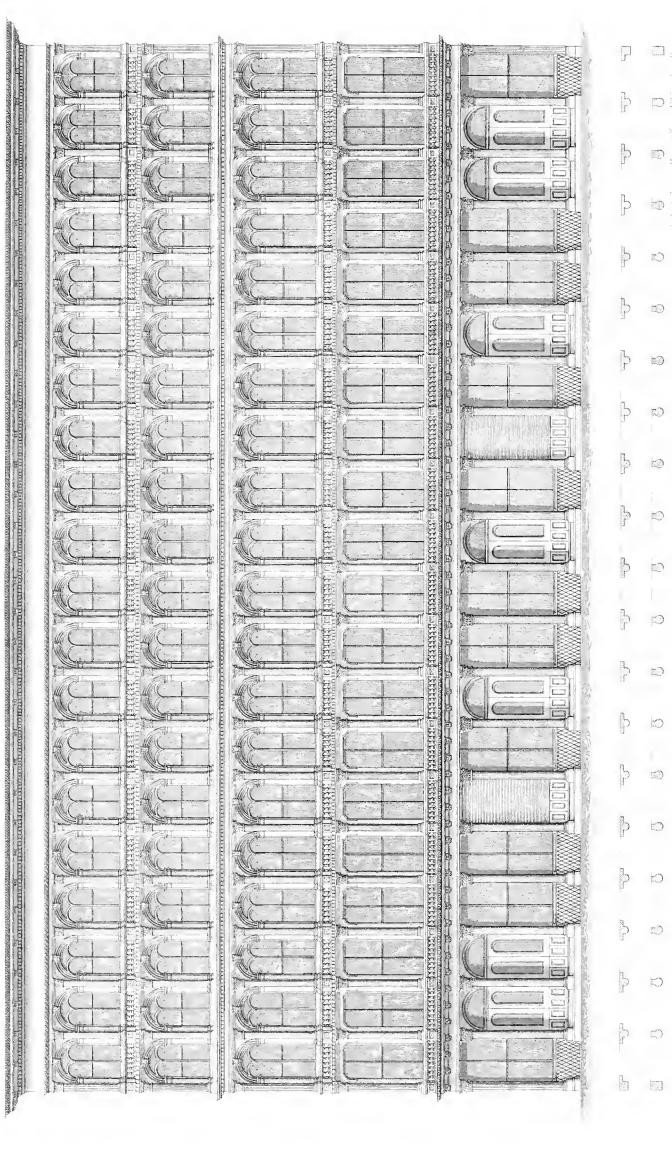
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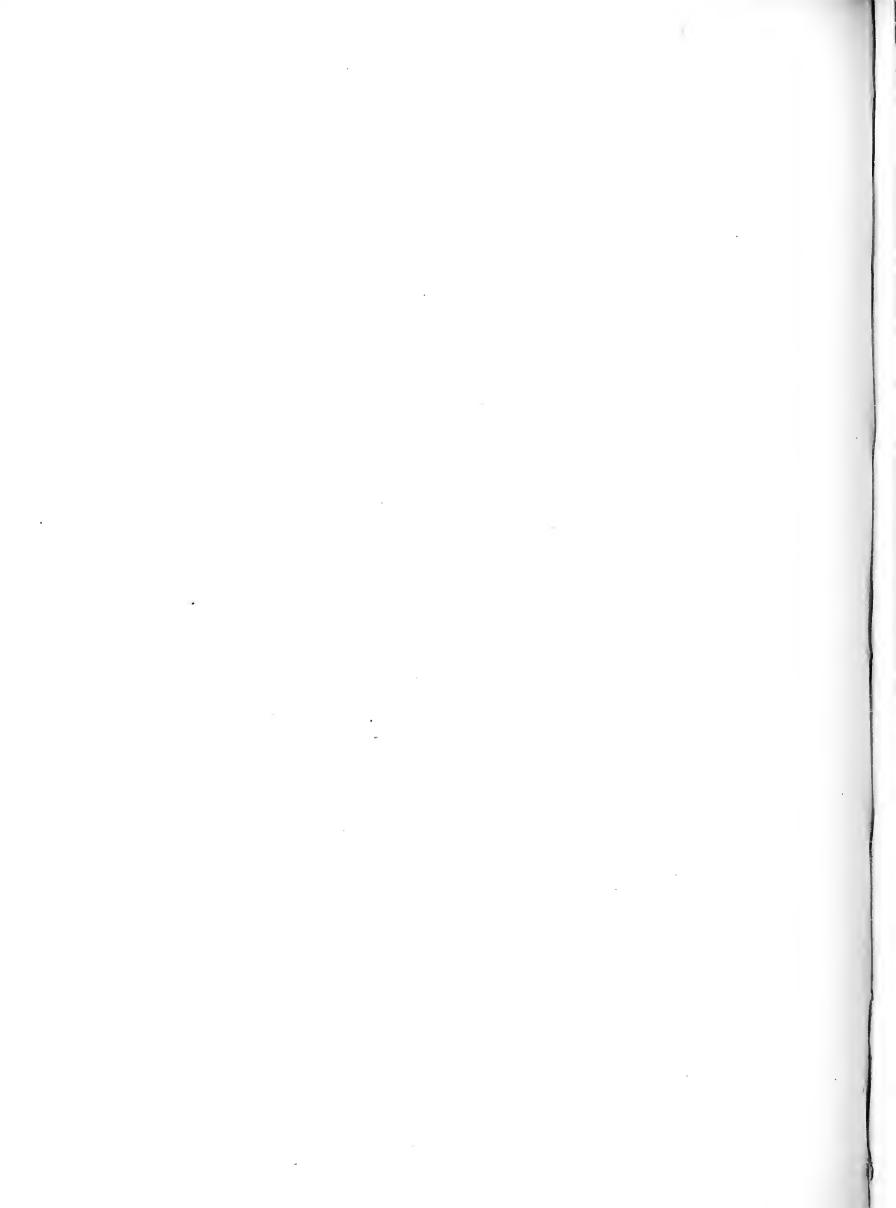


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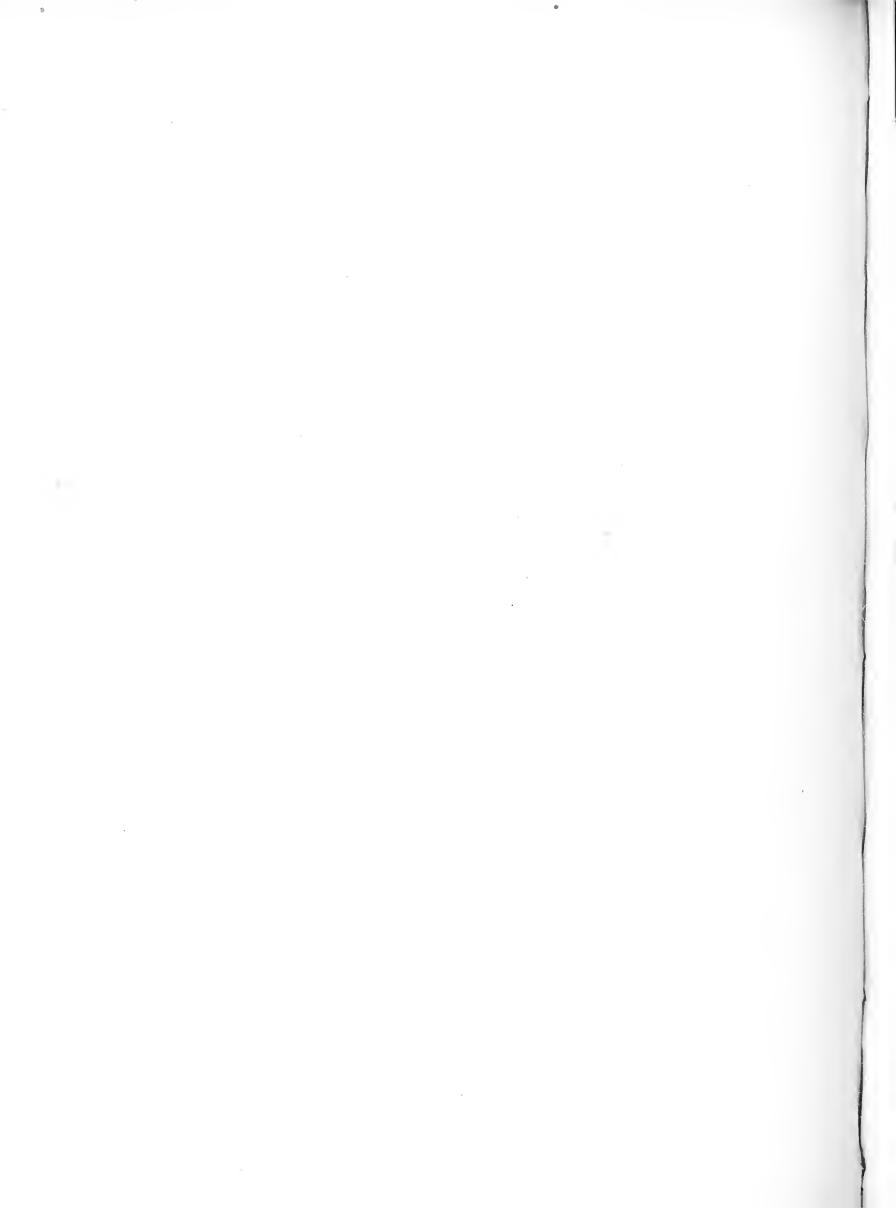
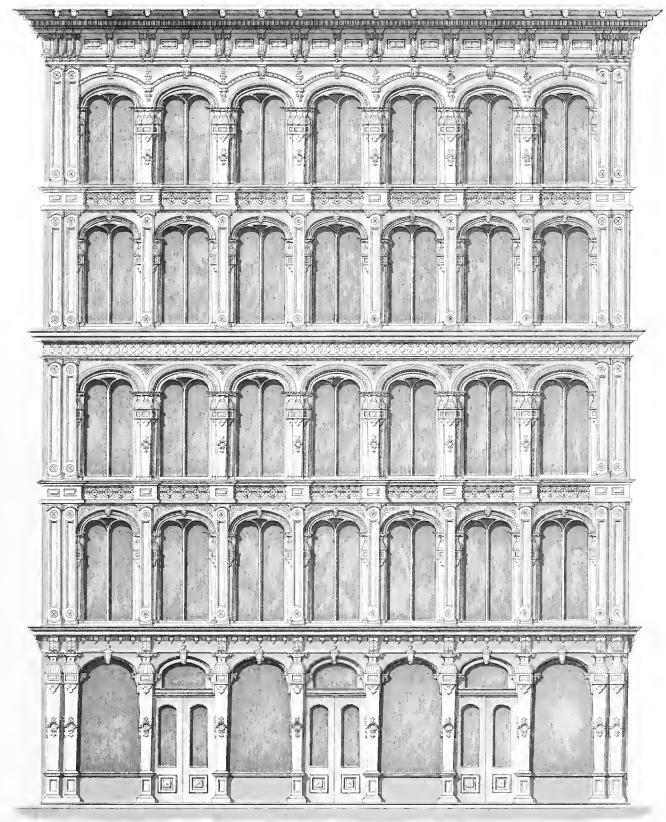


Plate AM

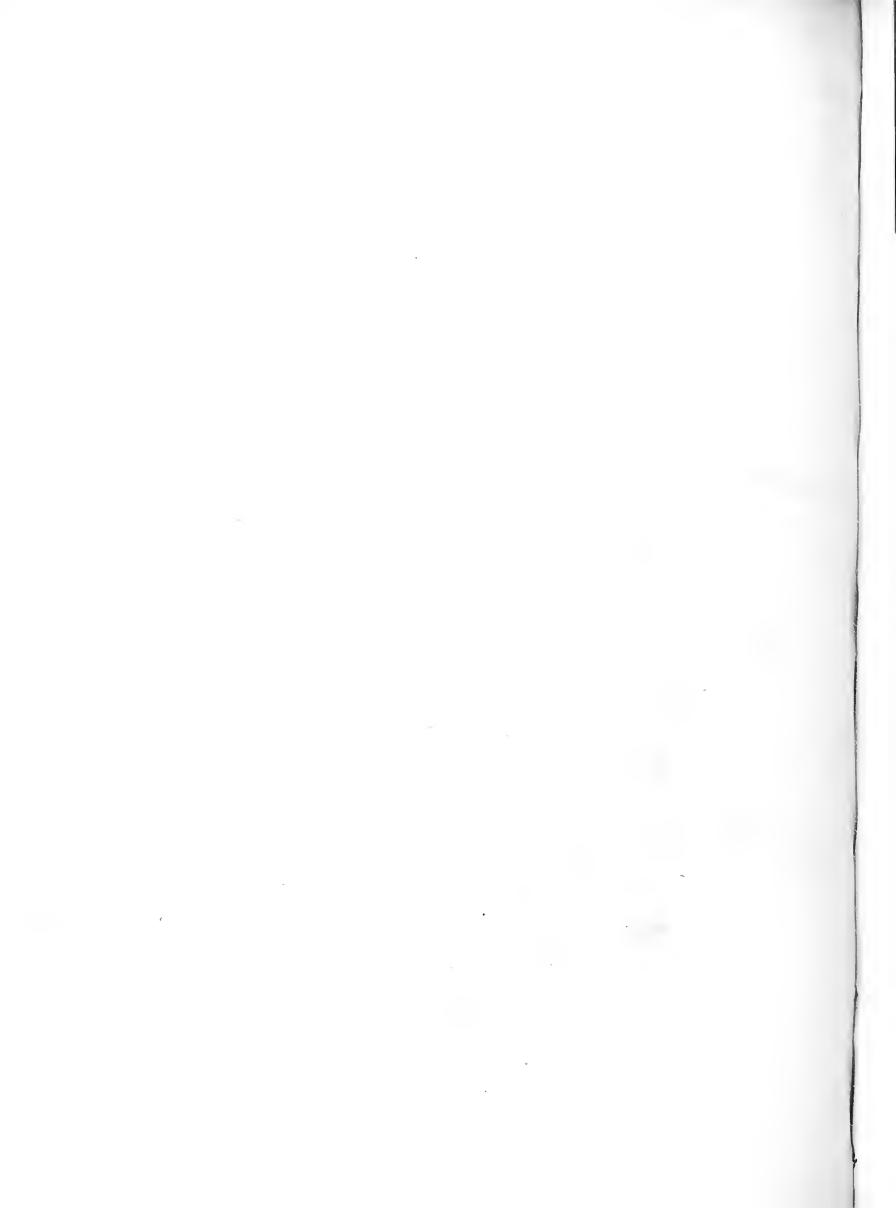
Design for Store Front.

No 32.

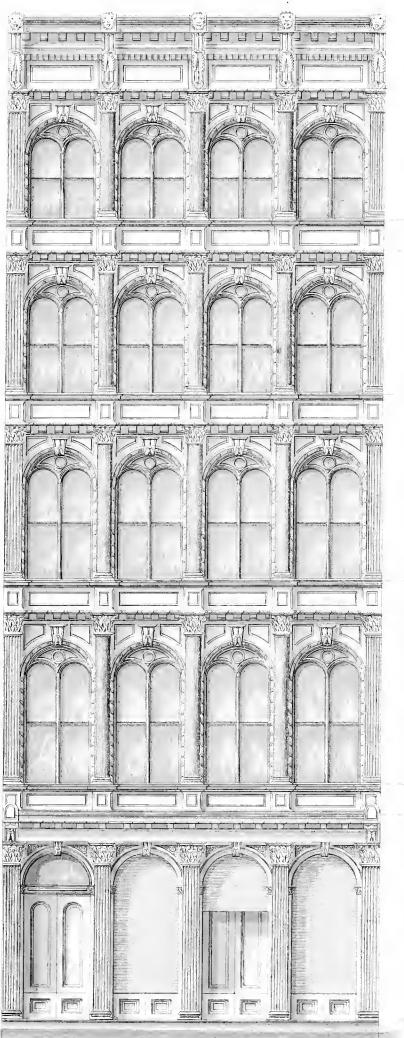


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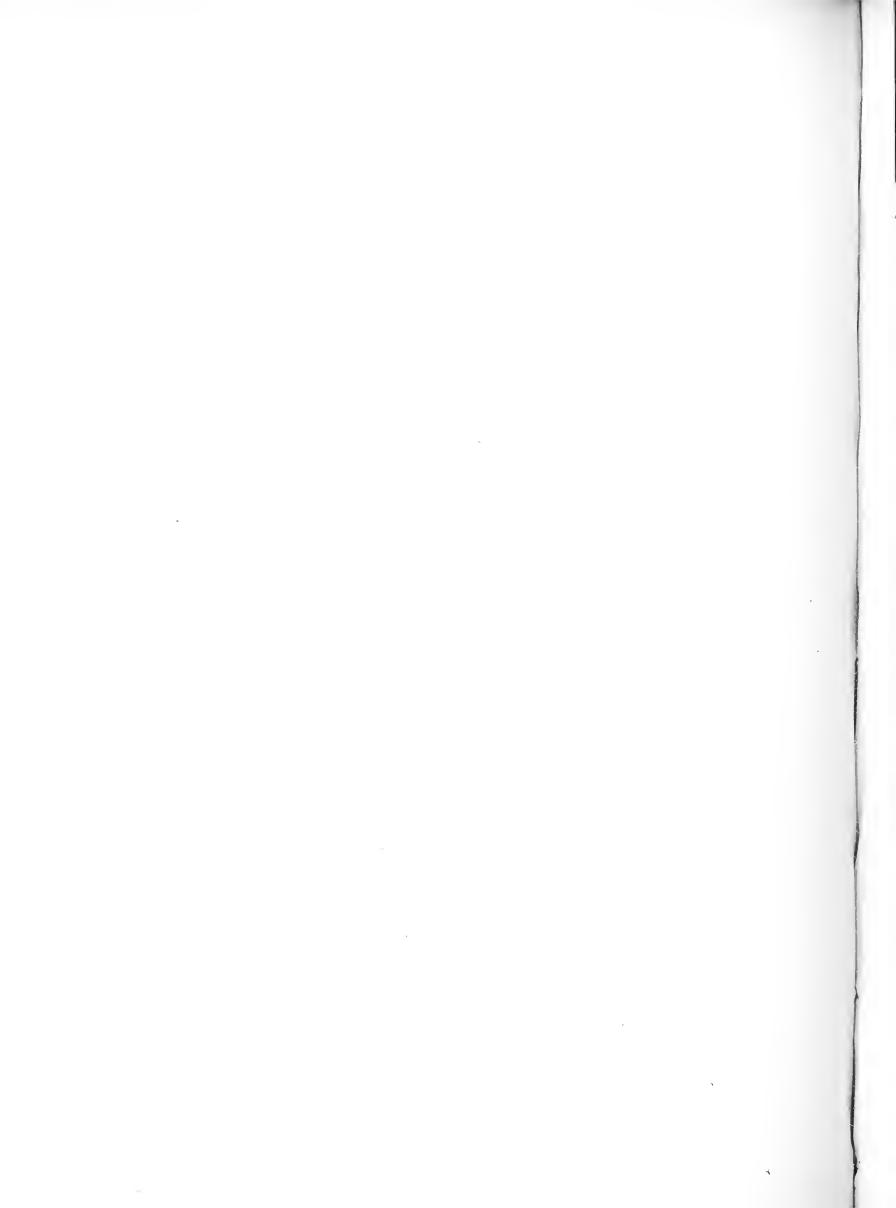
ARCHITECTURAL IRON WORKS, NEW-YORK.



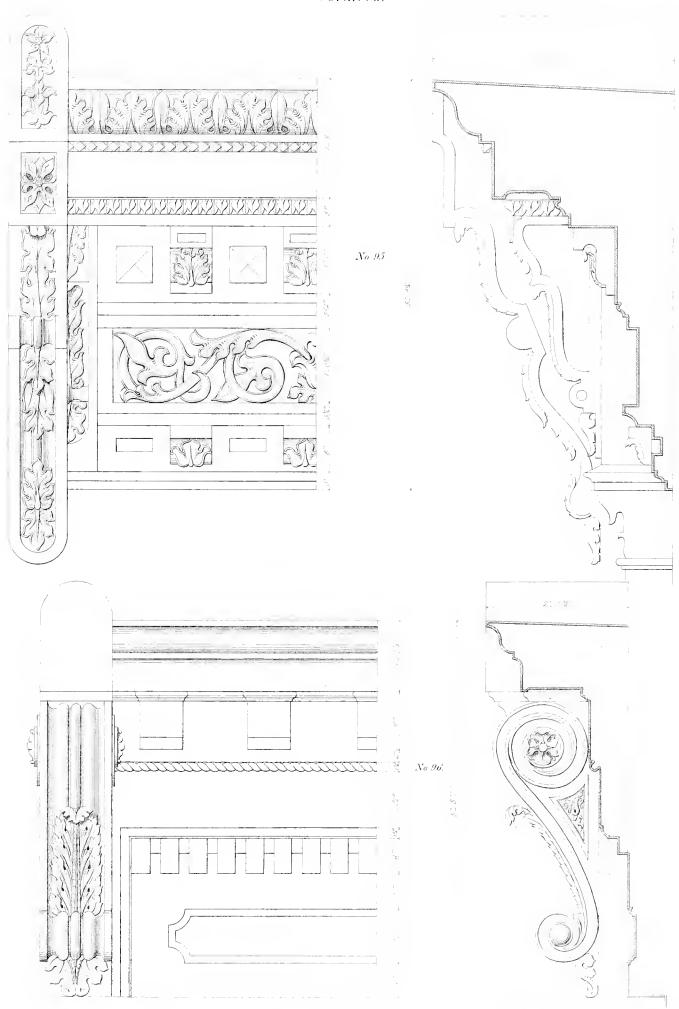
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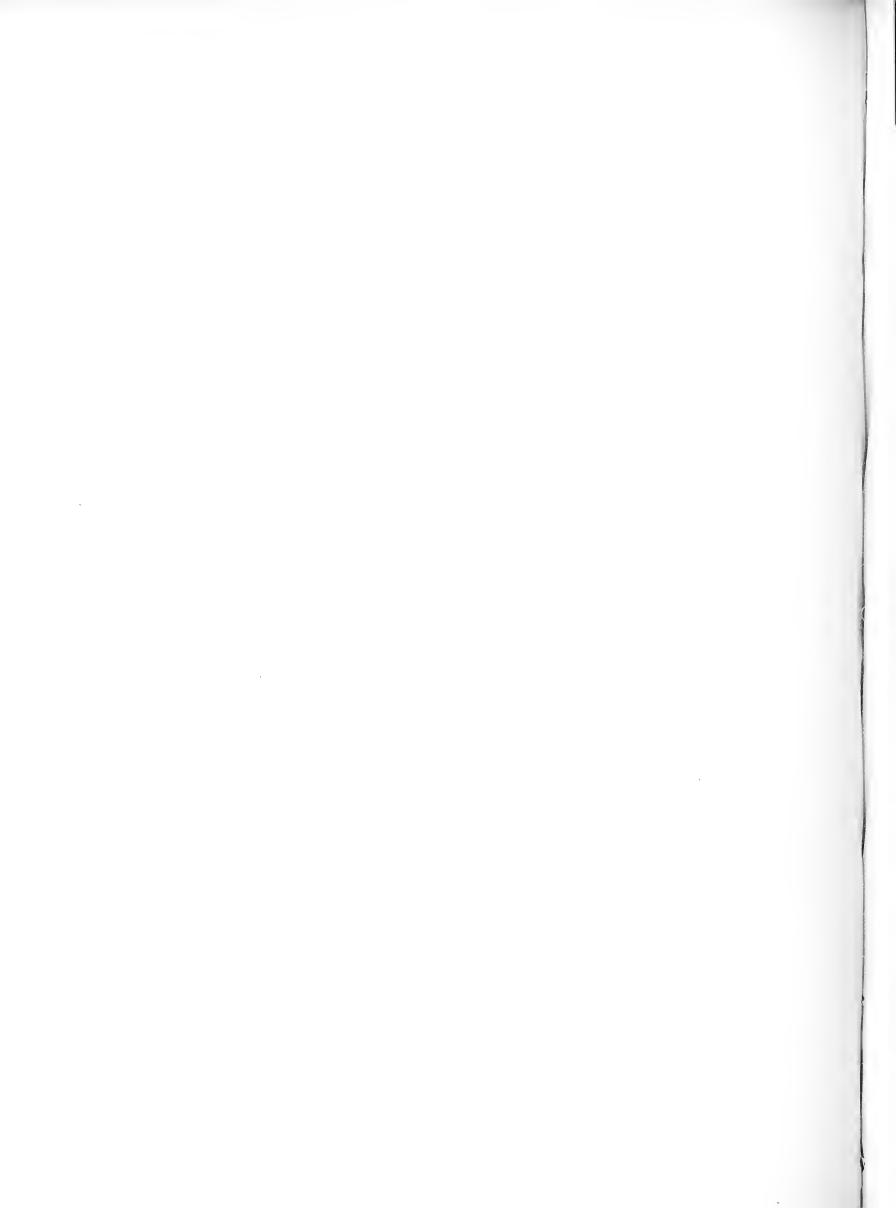
ARCHITECTURAL IRON WORKS NEW YORK



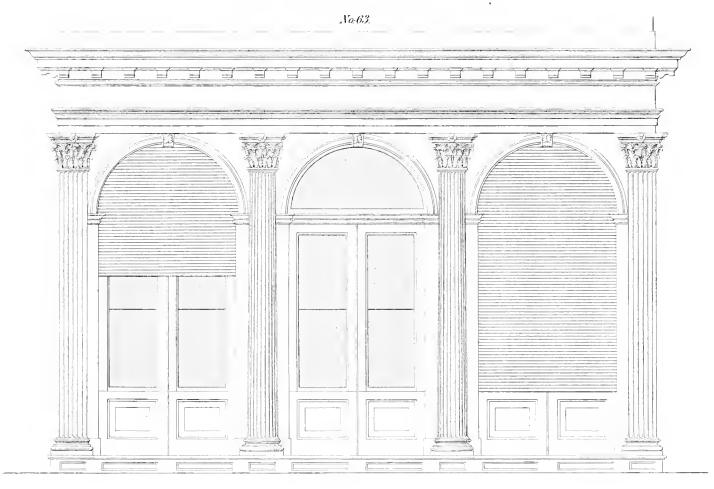
Cornices.

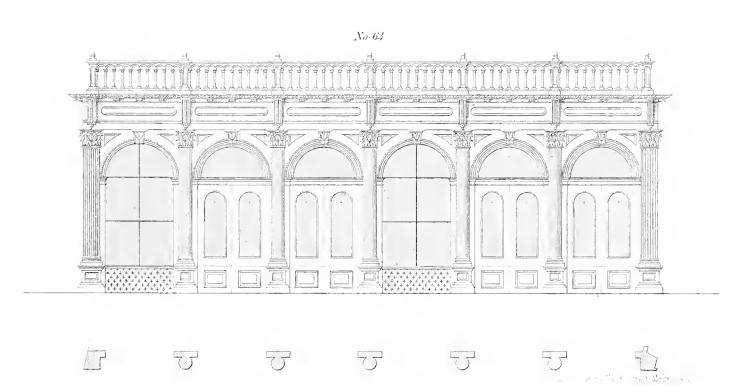


ARCHITECTURAL IRON WORKS, NEW-YORK

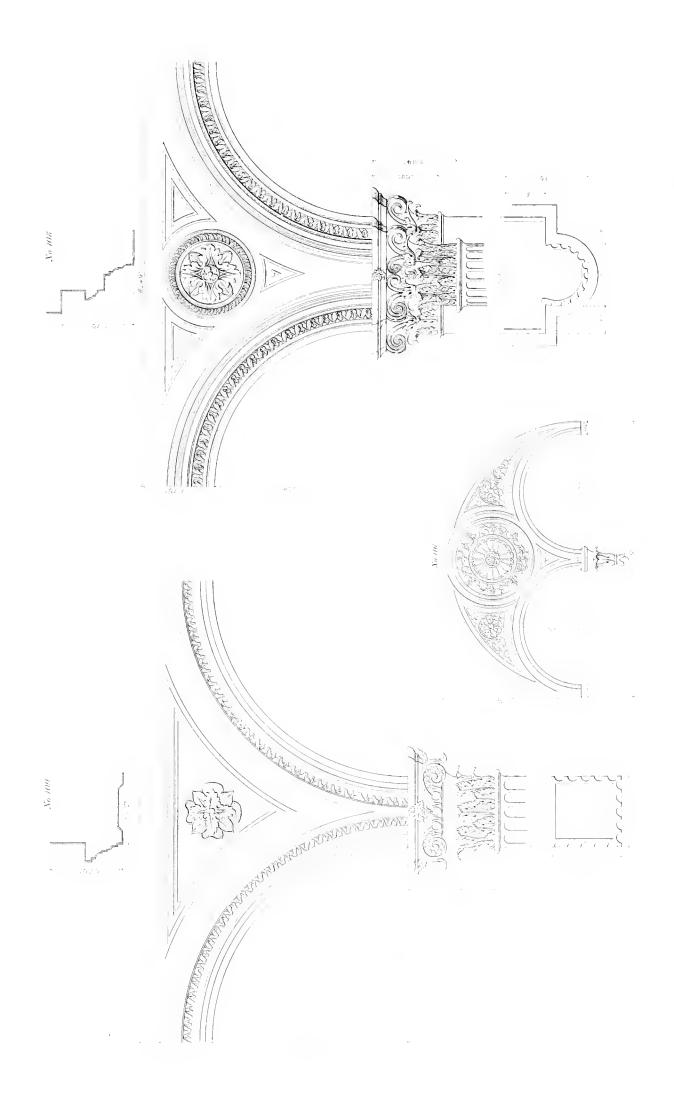


Front Elevation of first Story

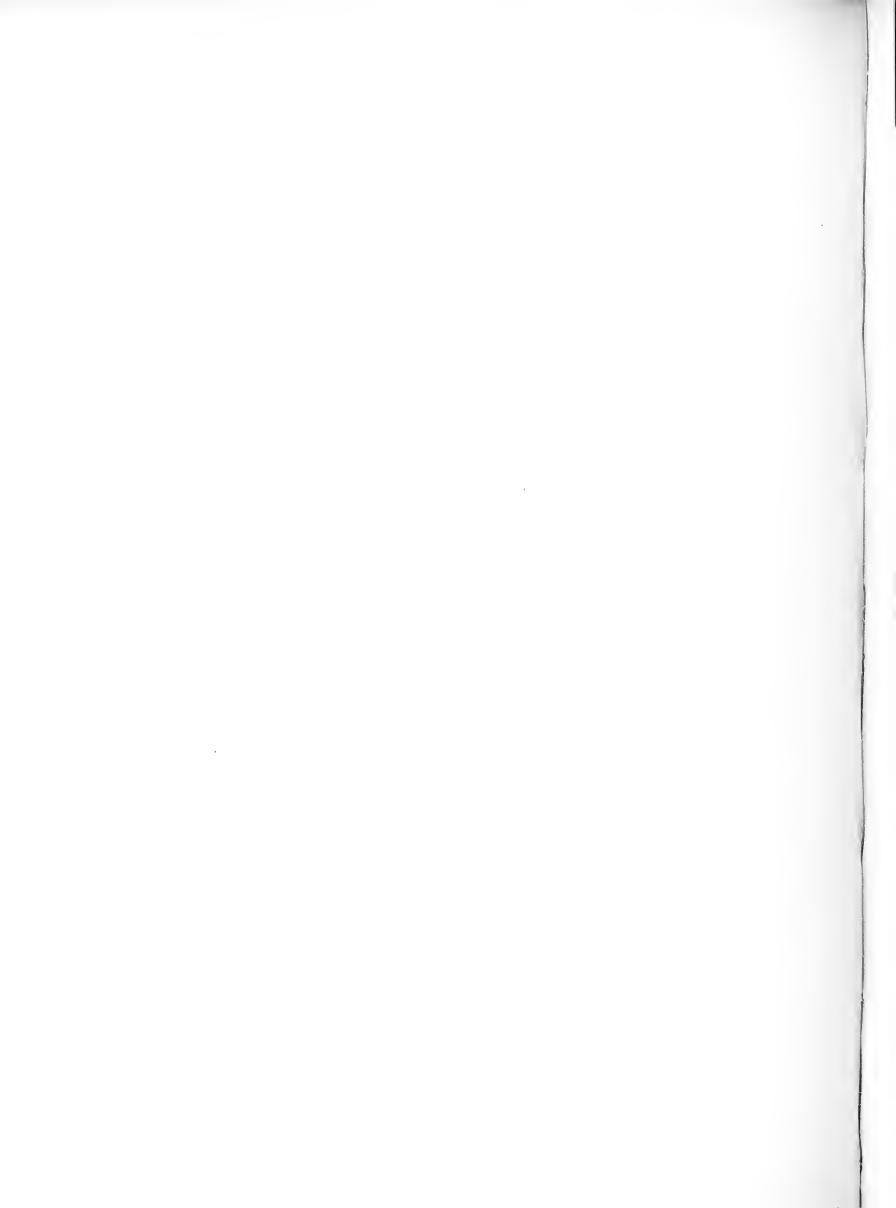


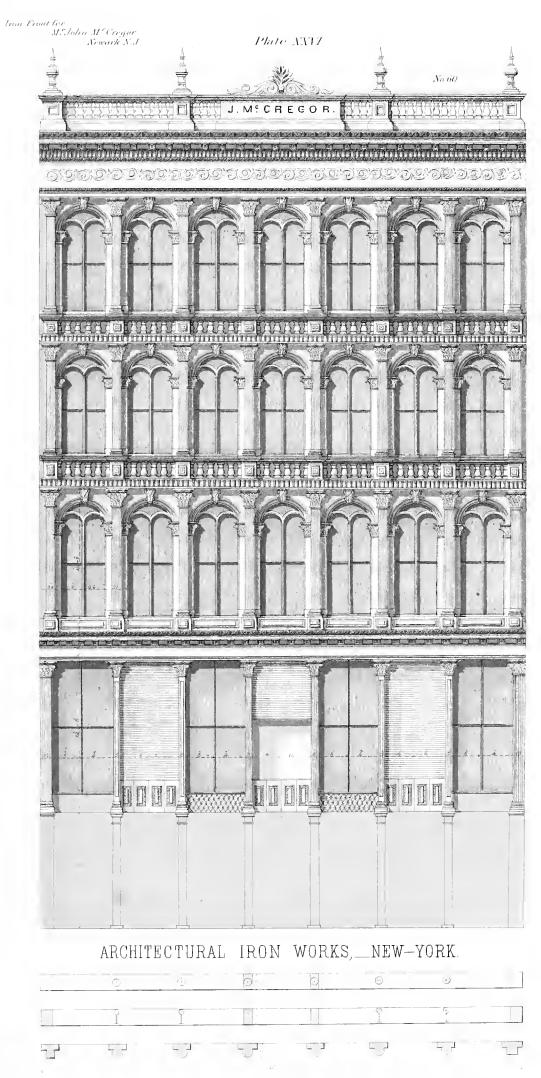


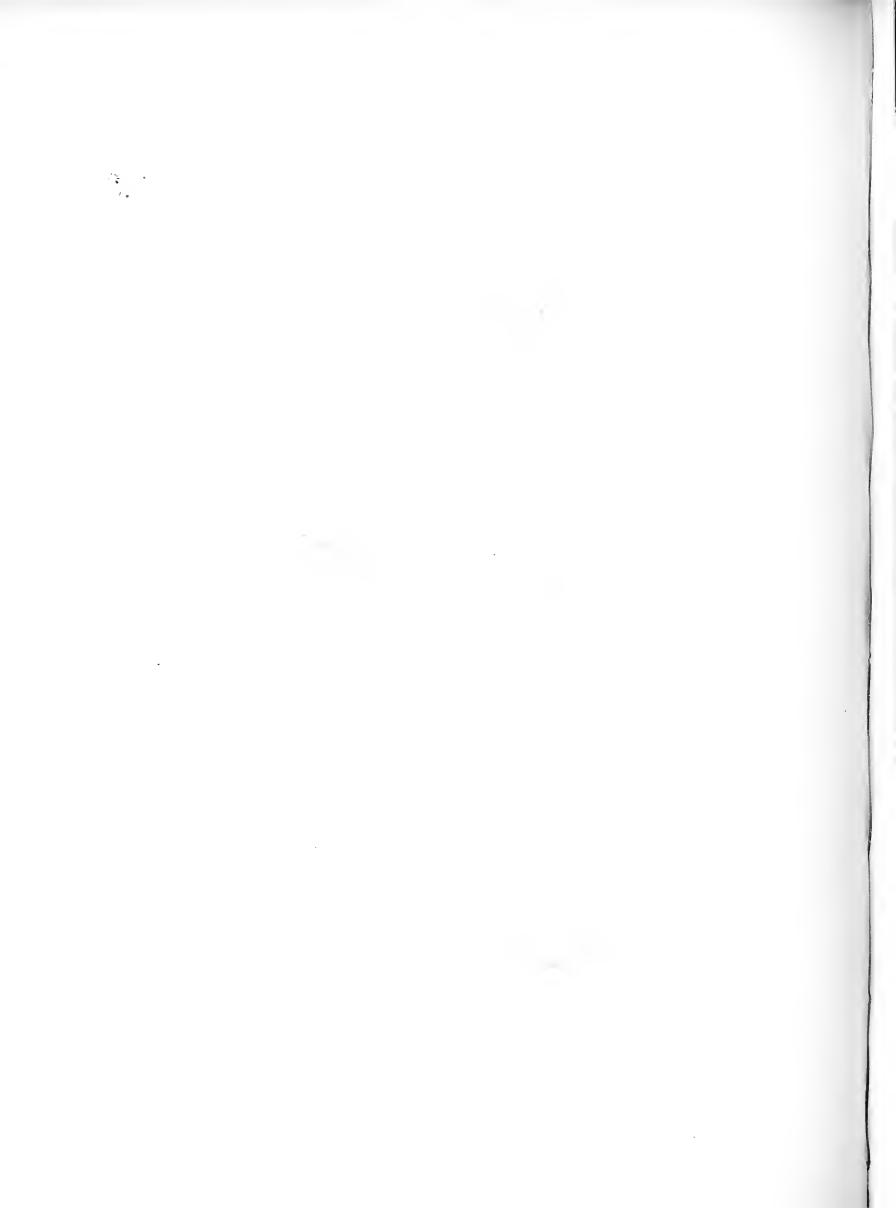
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ARCHITECTURAL IRON WORKS, NEW-YORK

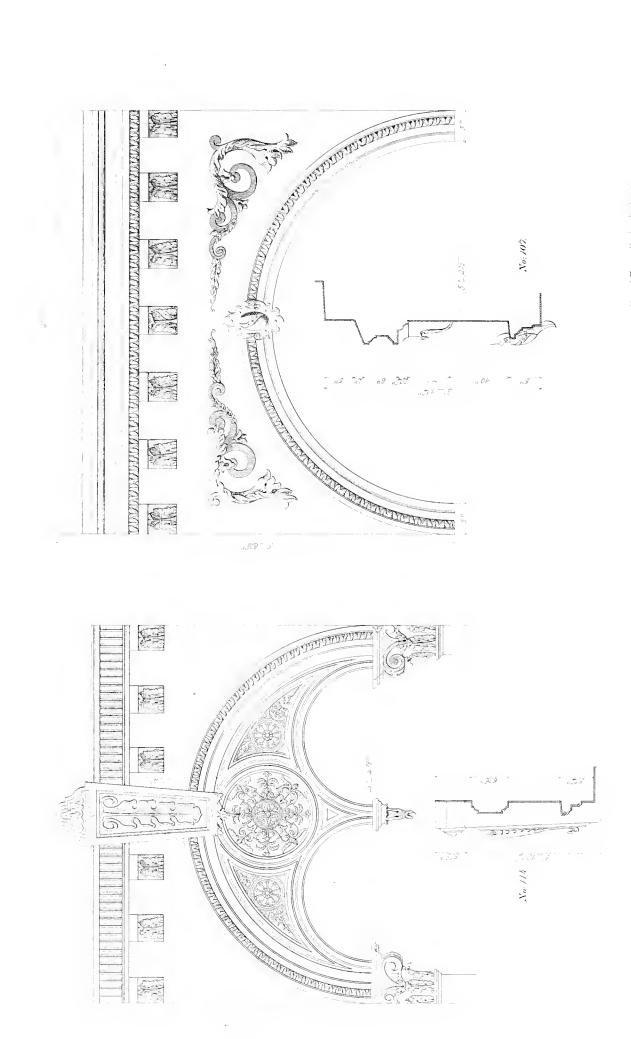






17/10 . VVI II

Arches, Keys, and Arch Ornaments.



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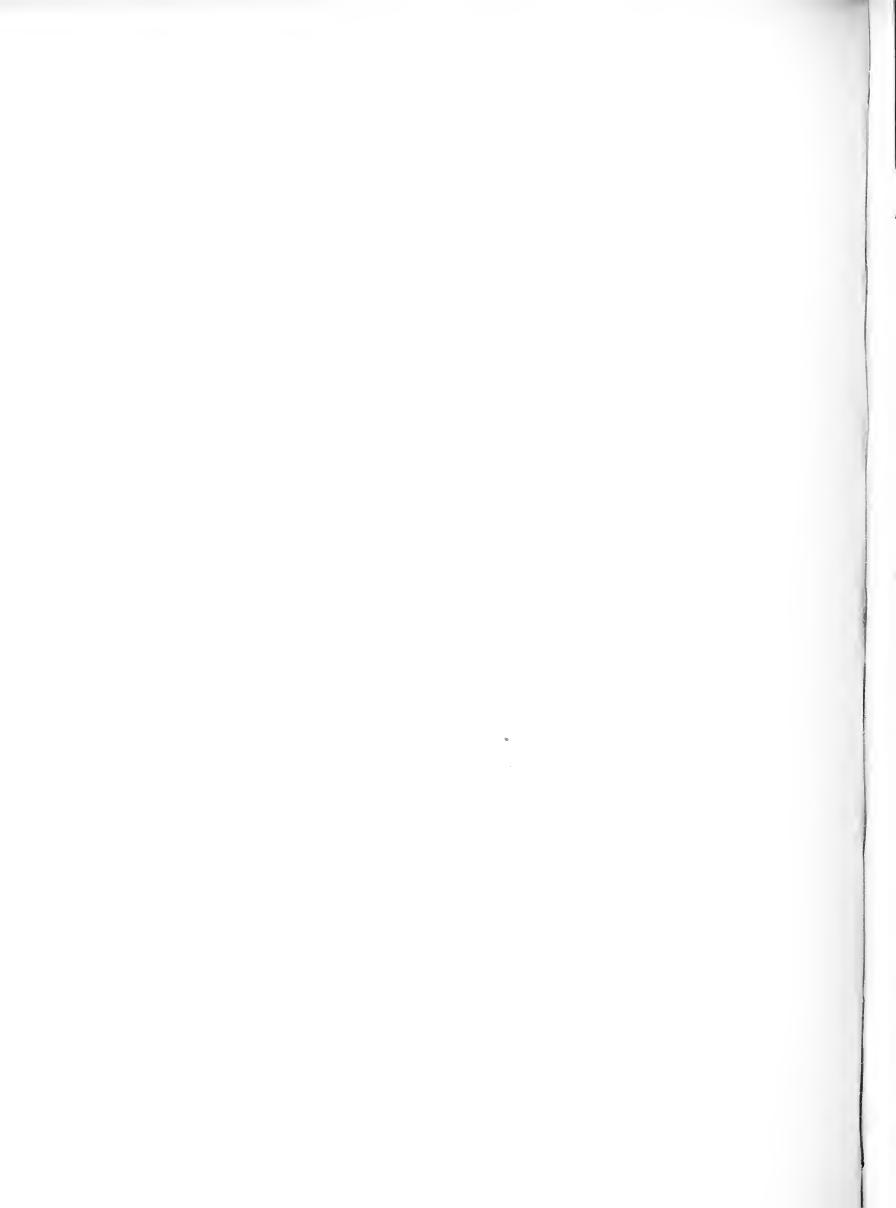
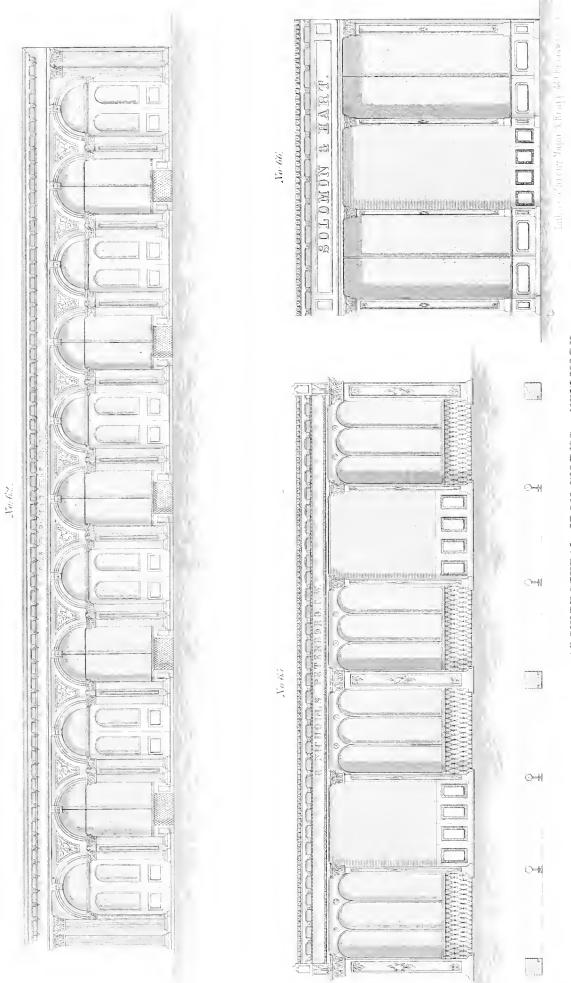


Plate XXVIII Designs for Store Fronts.



ARCHITECTURAL IRON WORKS, NEW-YORK.

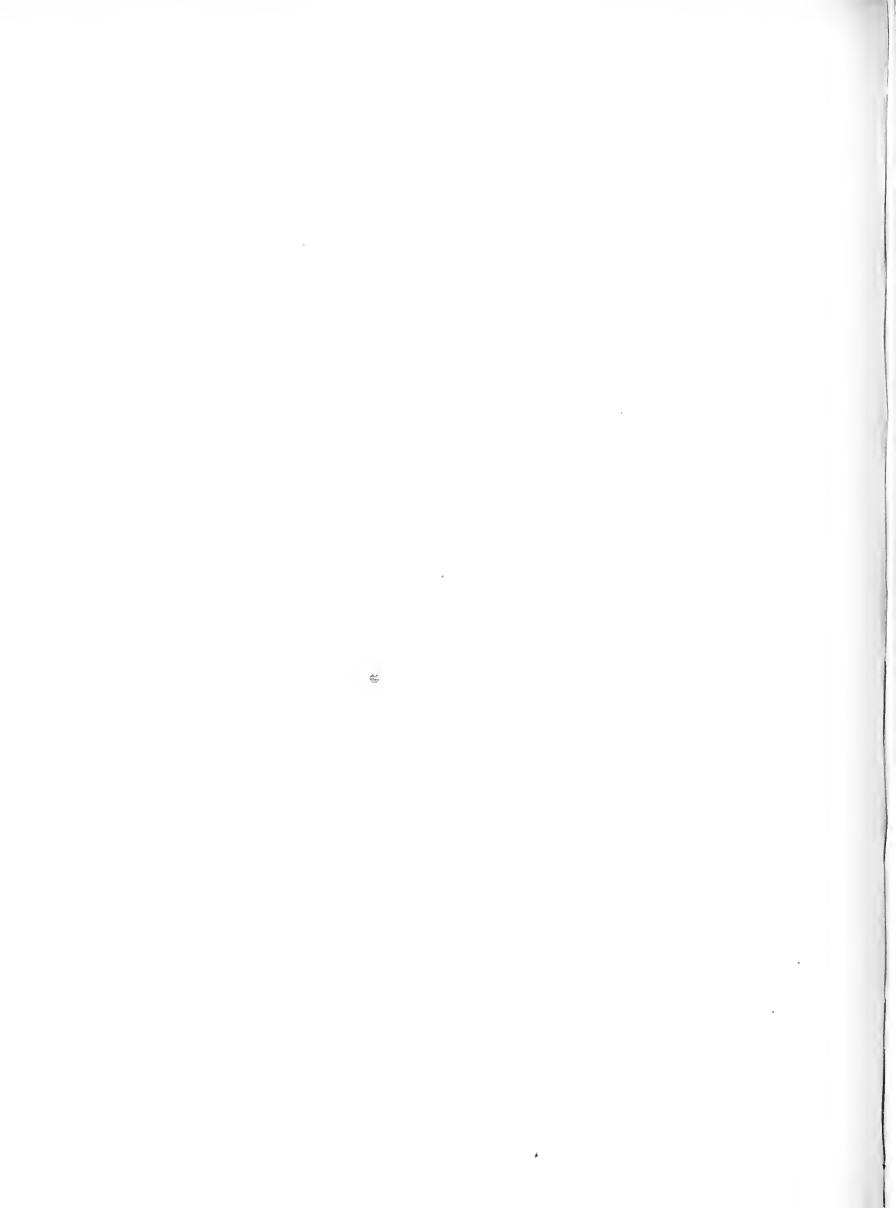
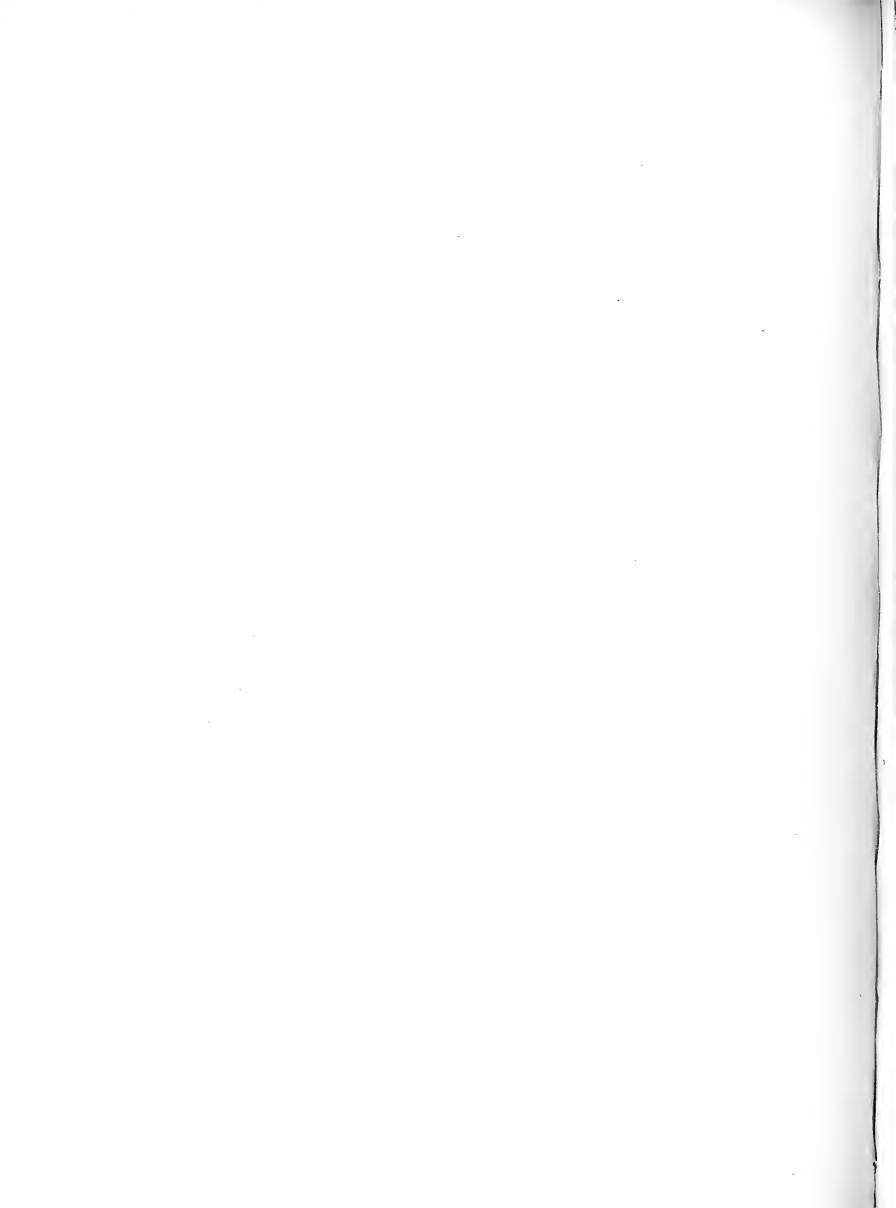
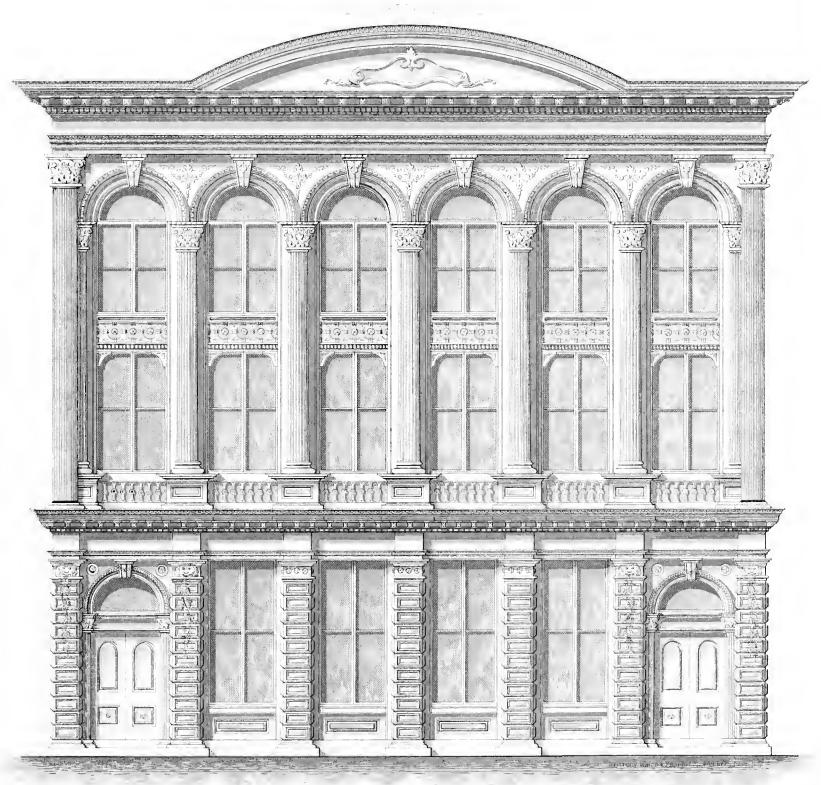


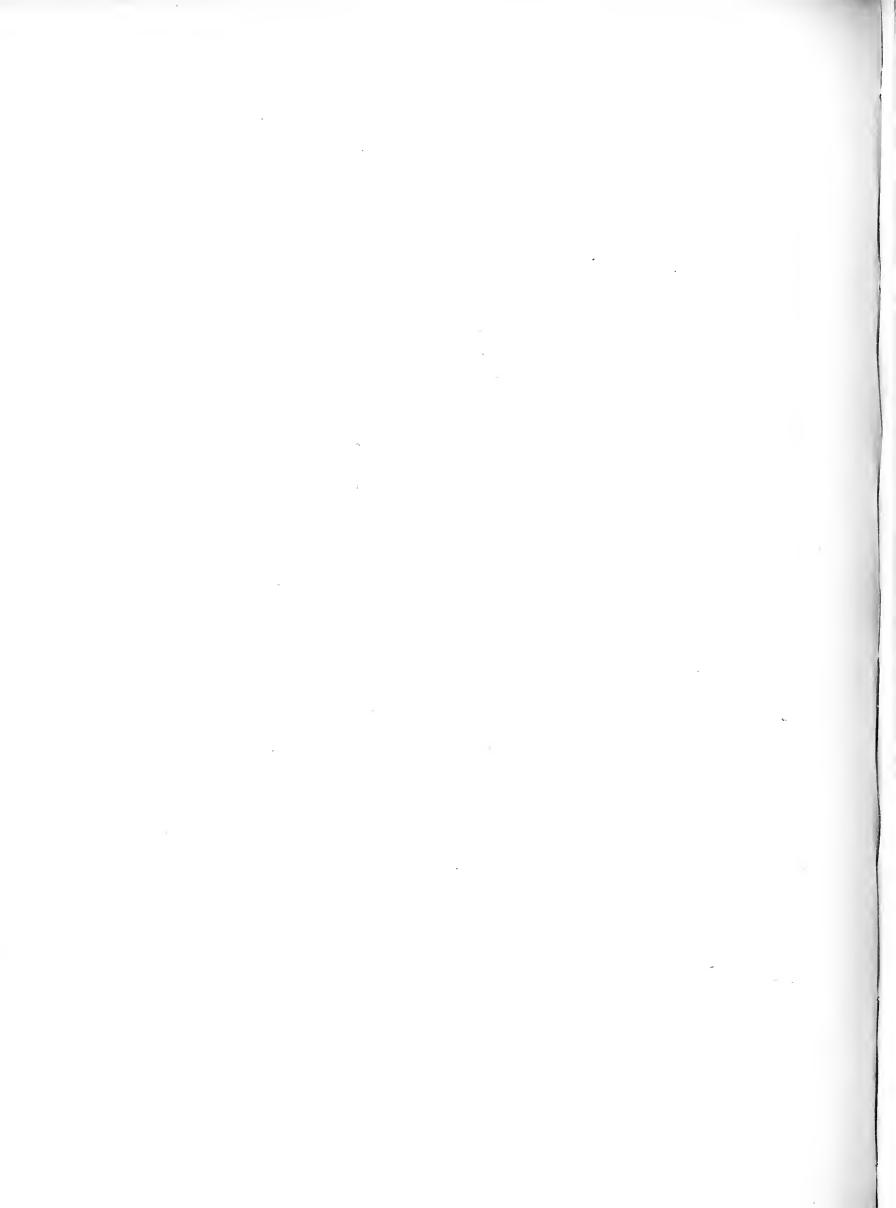
Plate UXIV







ARCHITECTURAL IRON WORKS, _ NEW-YORK.

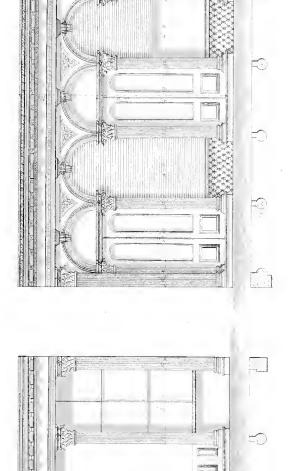


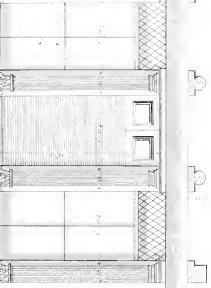
Elevations of 1st Story Fronts.

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17:03:

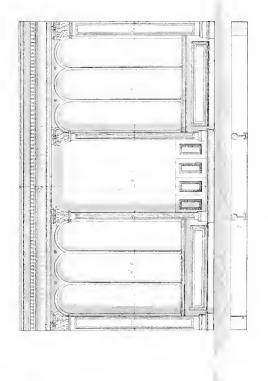




V. 5. 5. 5.

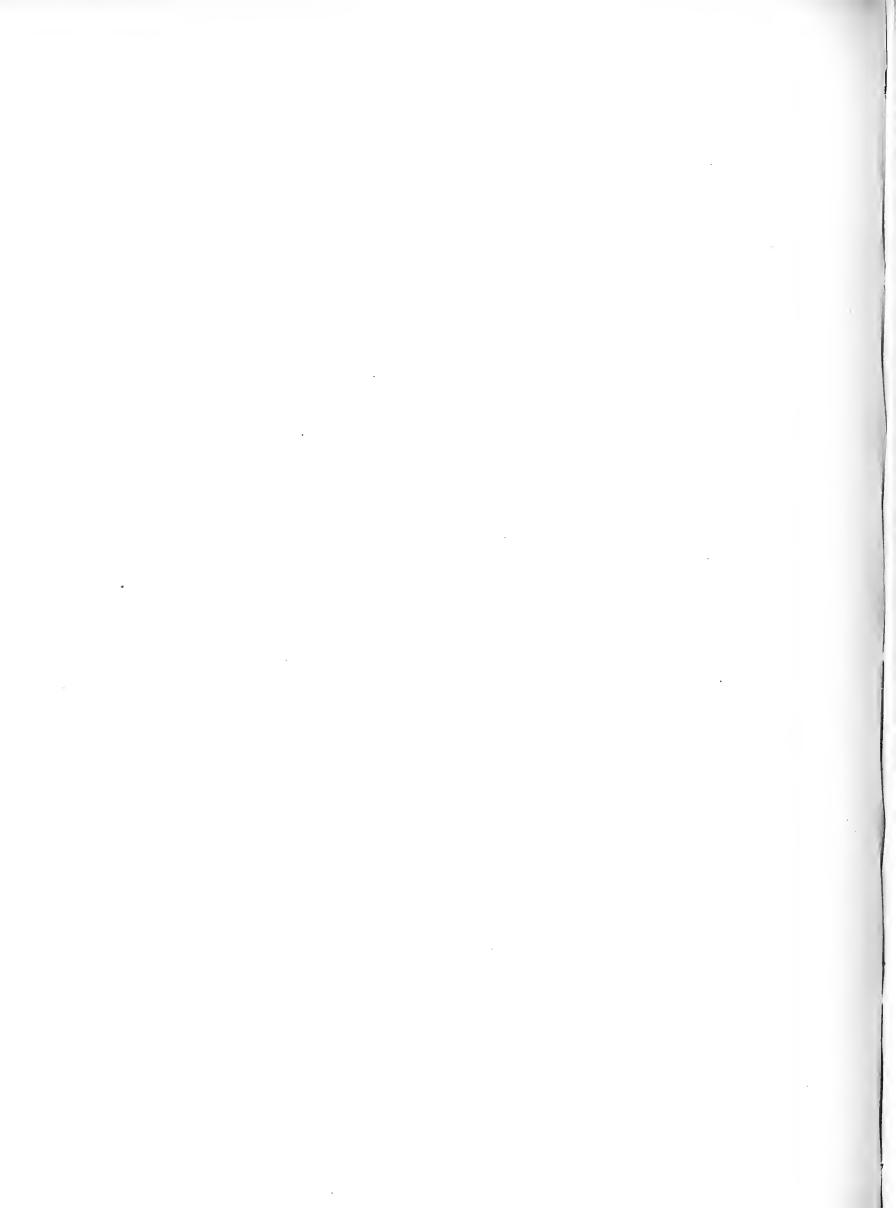
1.5.7.

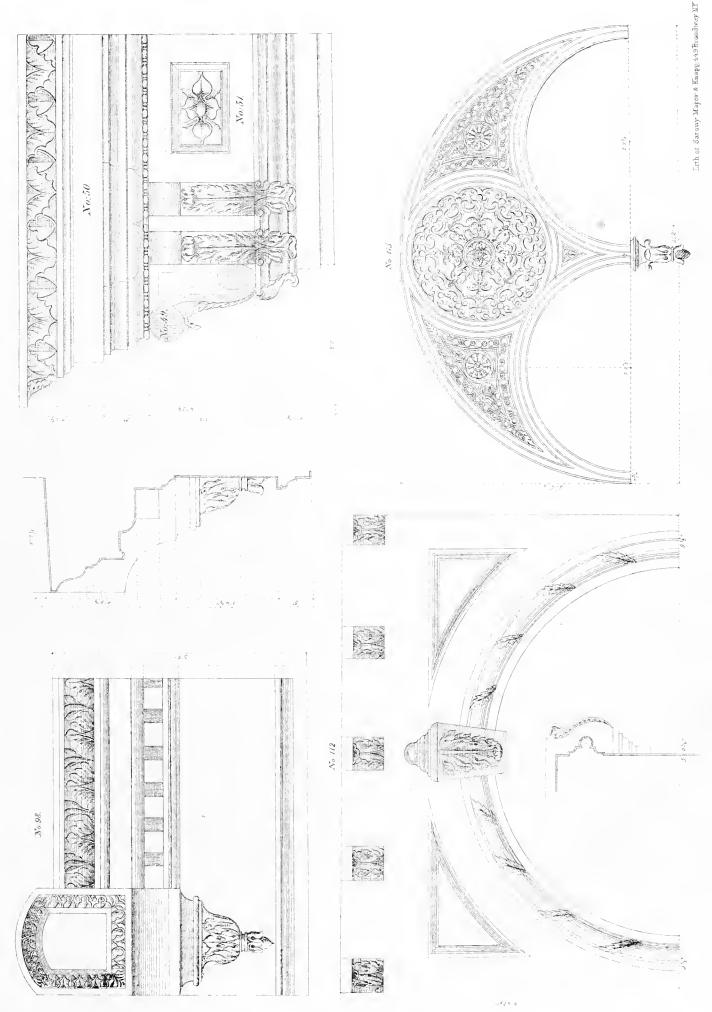
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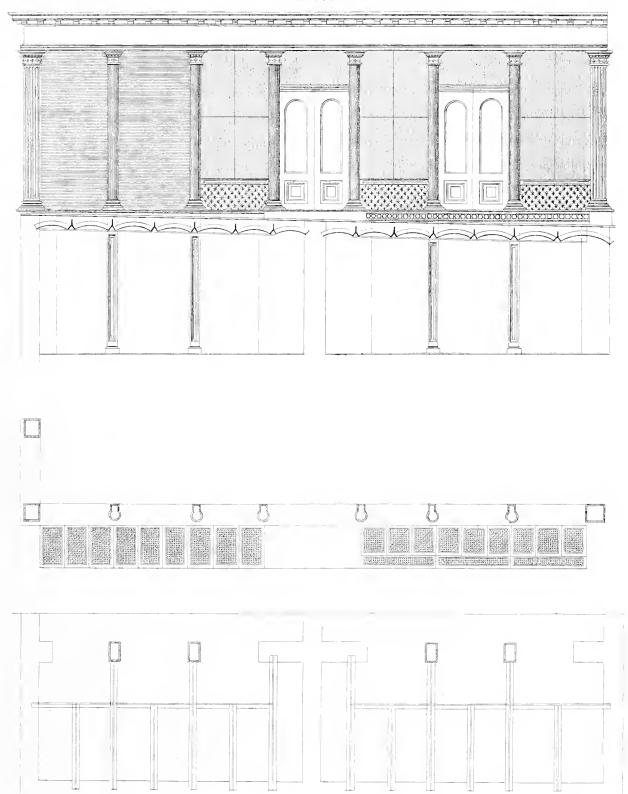
ARCHITECTURAL IRON WORZS NEW YORK.



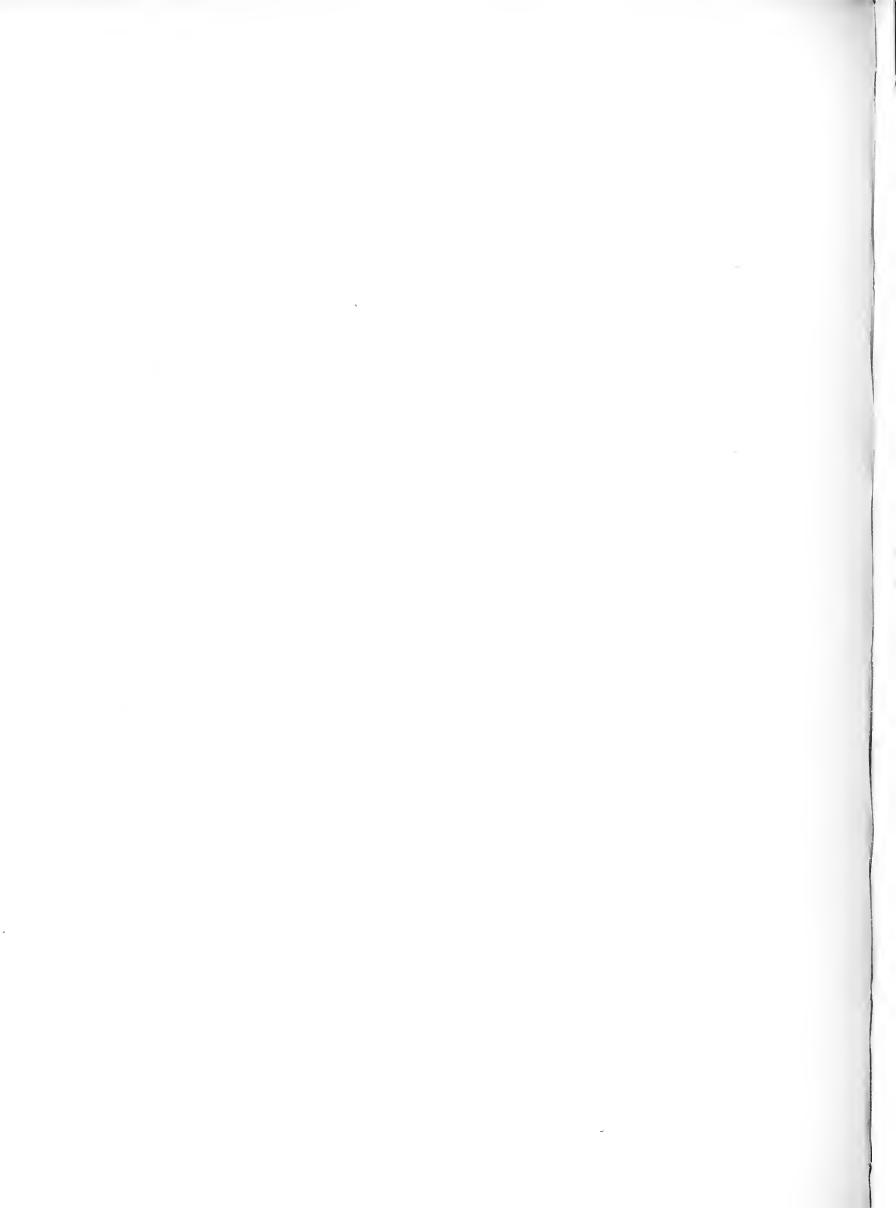
Plate XXXIII.

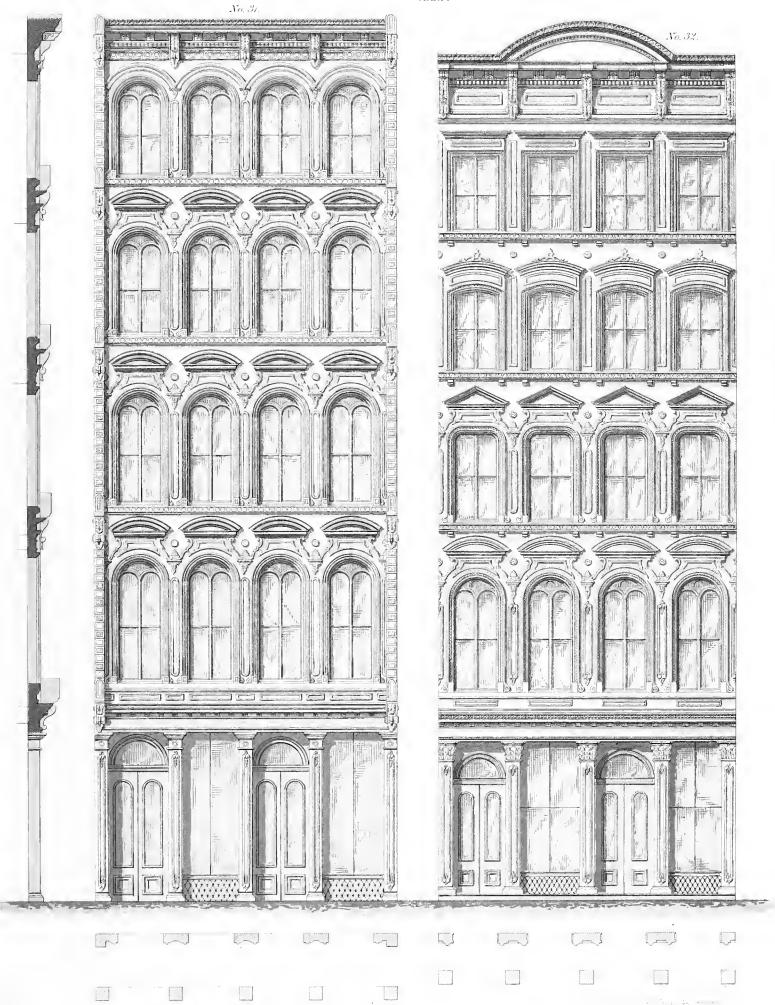
Iron Store Front for W.B. Greenlaw & Co. Memphis, Tenn.

No 69.



ARCHITECTURAL IRON WORKS. NEW-YORK



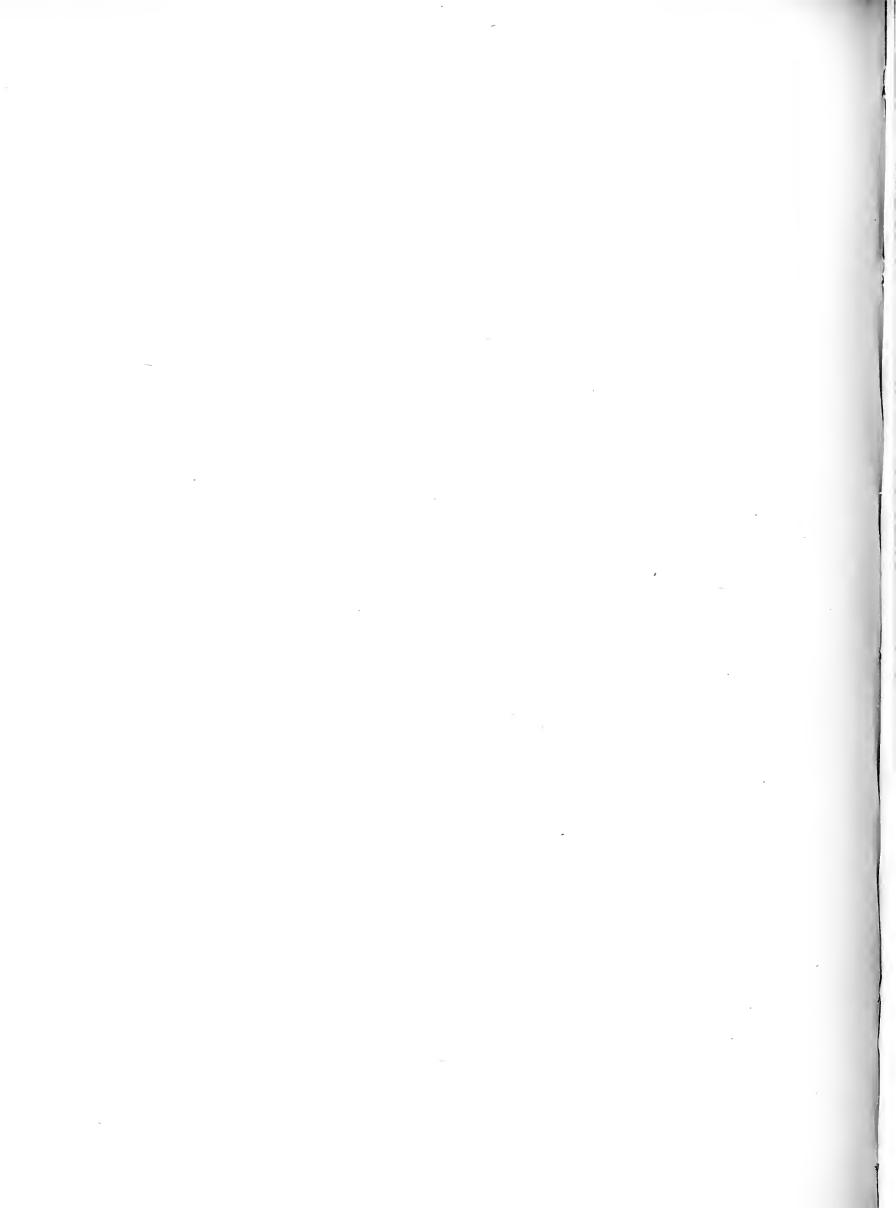


ARCHITECTURAL IRON WORKS, __ NEW-YORK



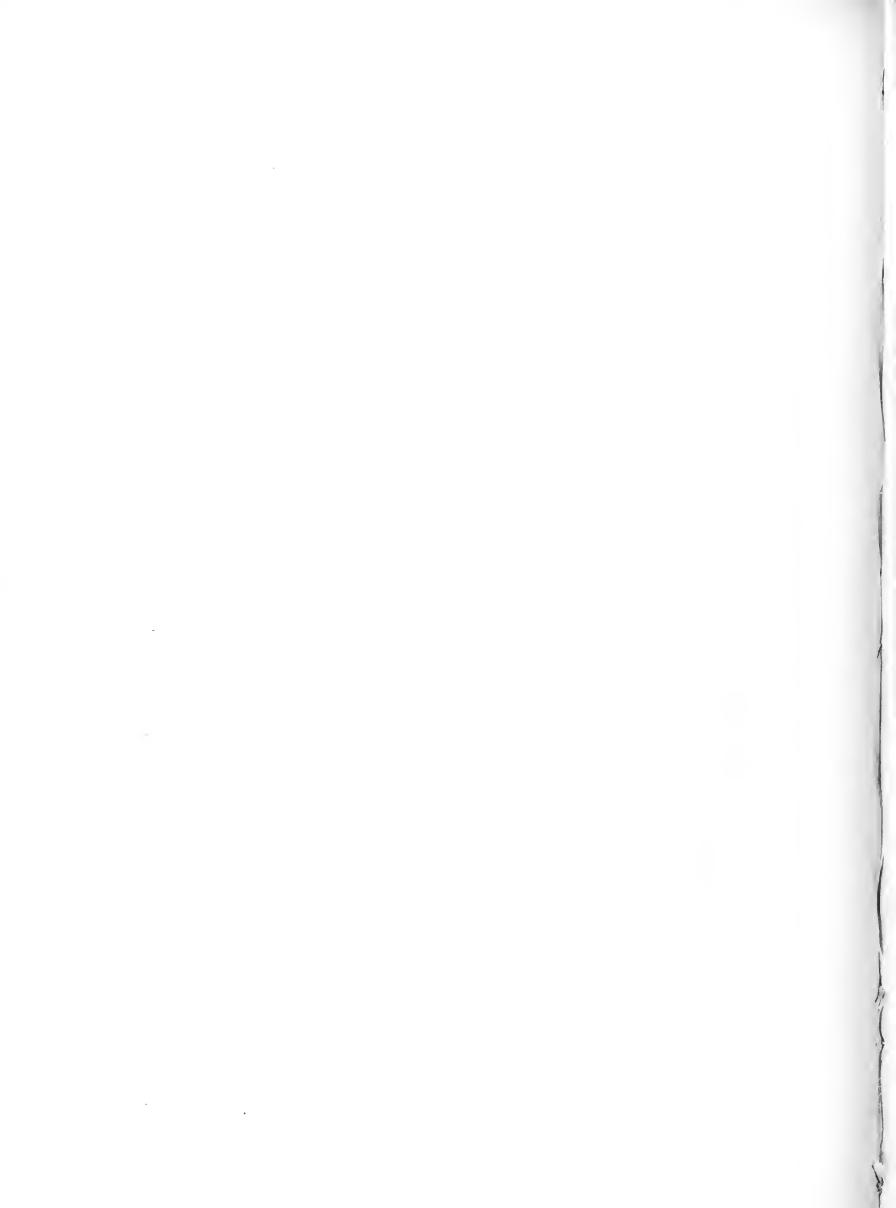


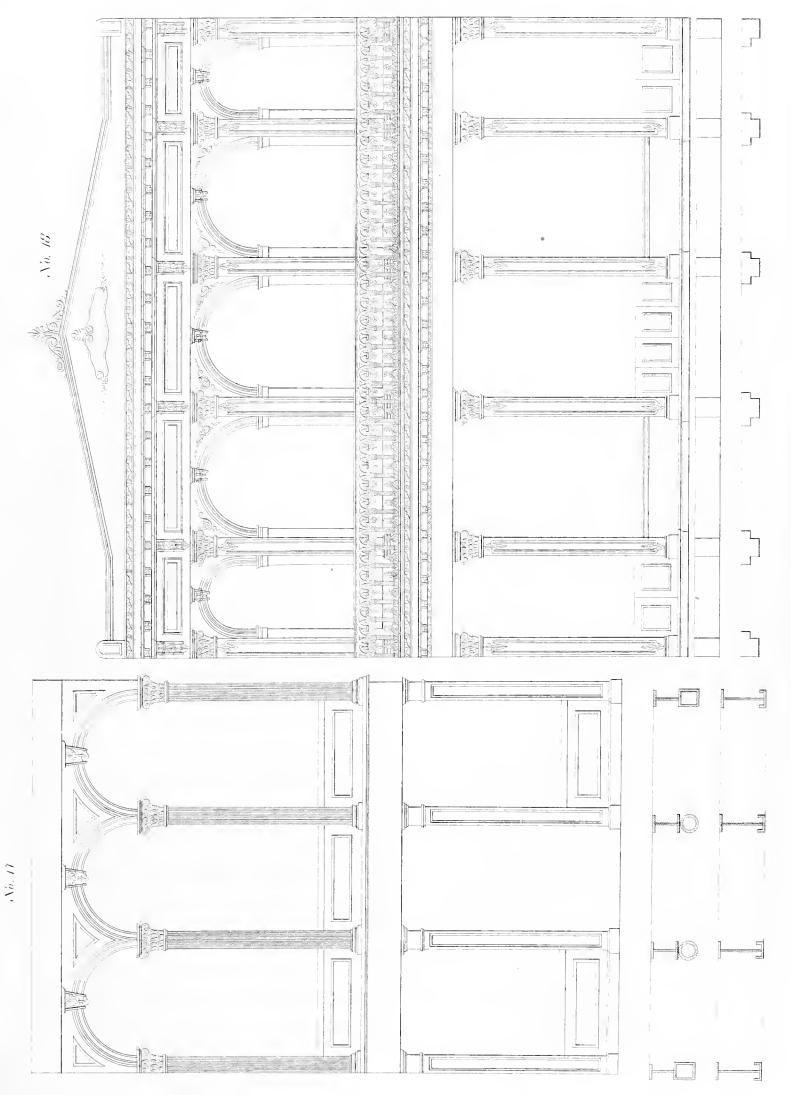
ARCHITECTURAL IRON WORKS, NEW-YORK



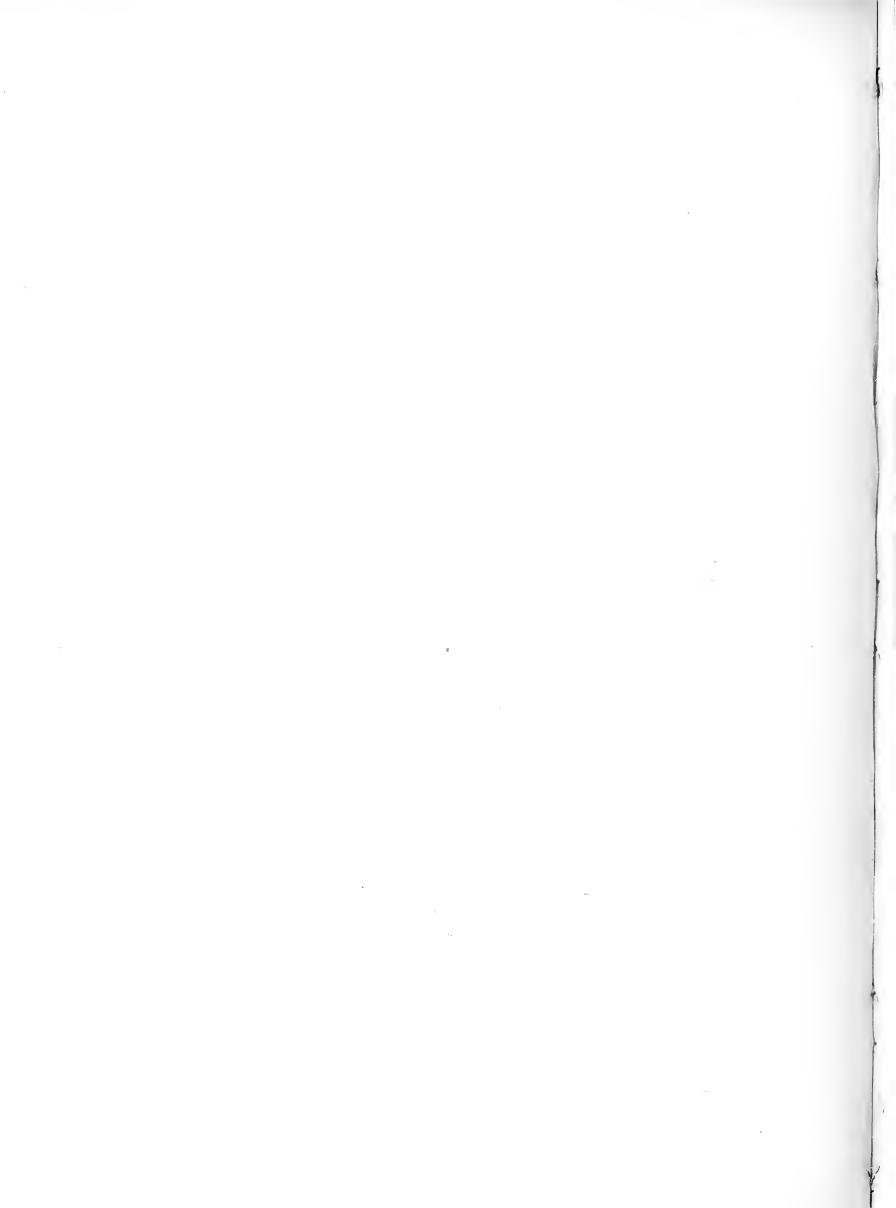
th of Sarony, Mayor of Knapp, 449 Broadway, W Proming to the formation of the first of the A Charles and the Control OVVINANTA 7 Charlet and > S O C O NAME OF THE PARTY 7 Designs for Store Fronts **FILL** 门门 門開 13 Plate MATT 16.48 1 1 0 Vo. 19 3 0 ~ 3 1 **a** 0 2 ह्या भी

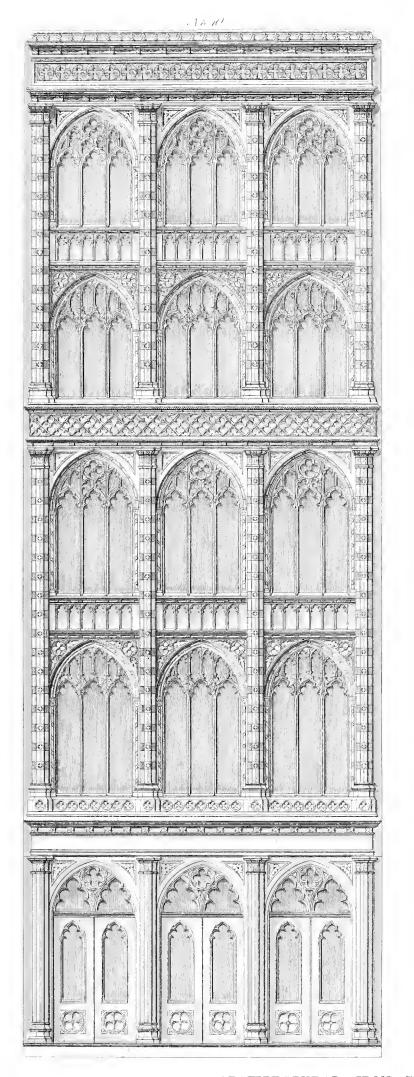
ARCHITECTURAL IRON WORKS, NEW-YORK.

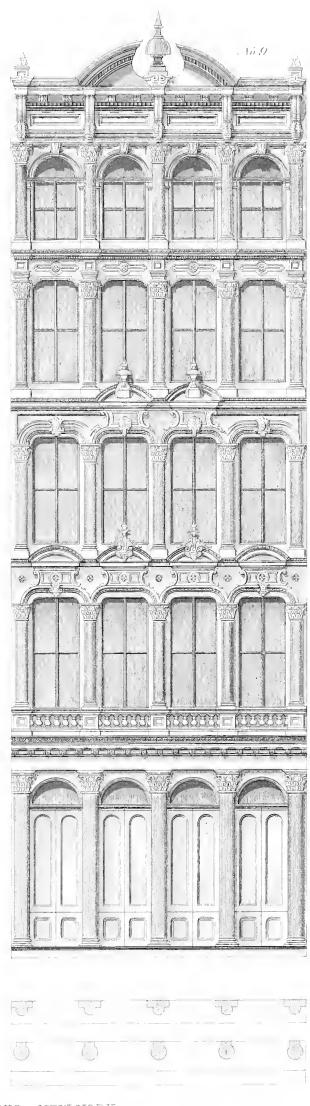




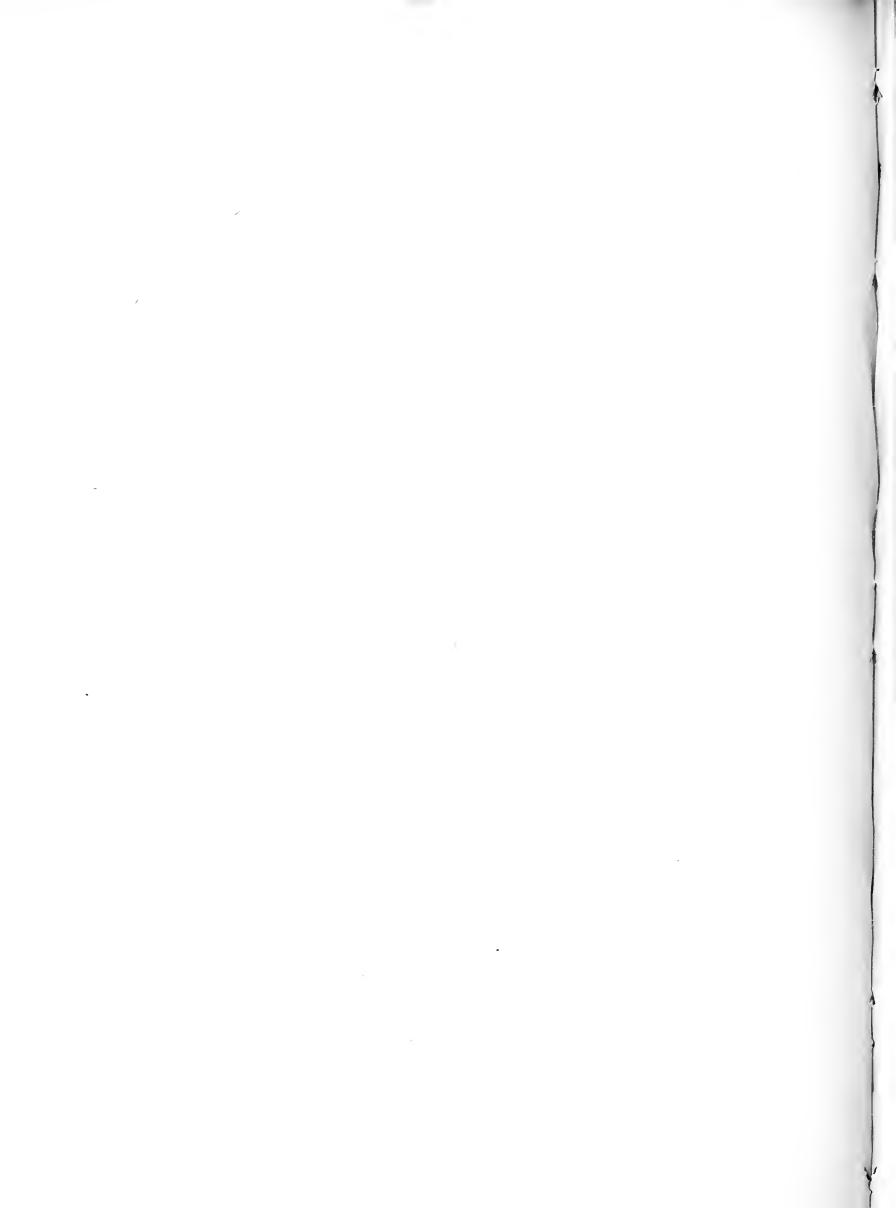
ARCHITECTURAL IRON WORKS. NEW YORK,



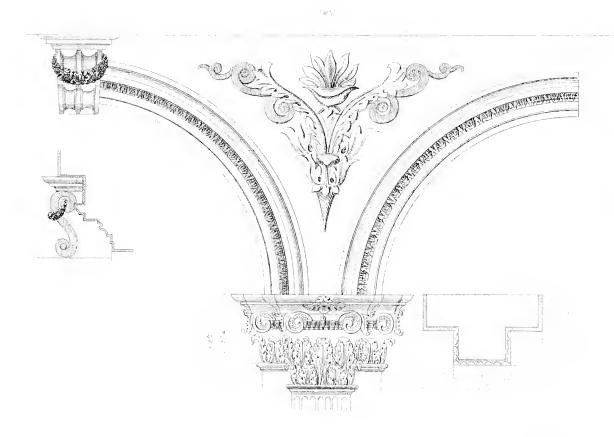




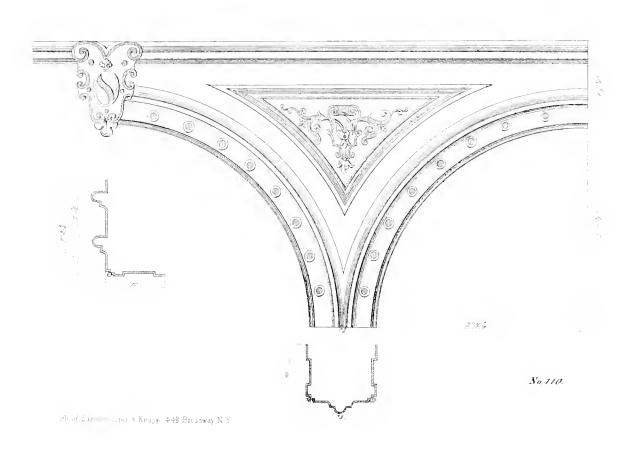
ARCHITECTURAL IRON WORKS,_ NEW-YORK



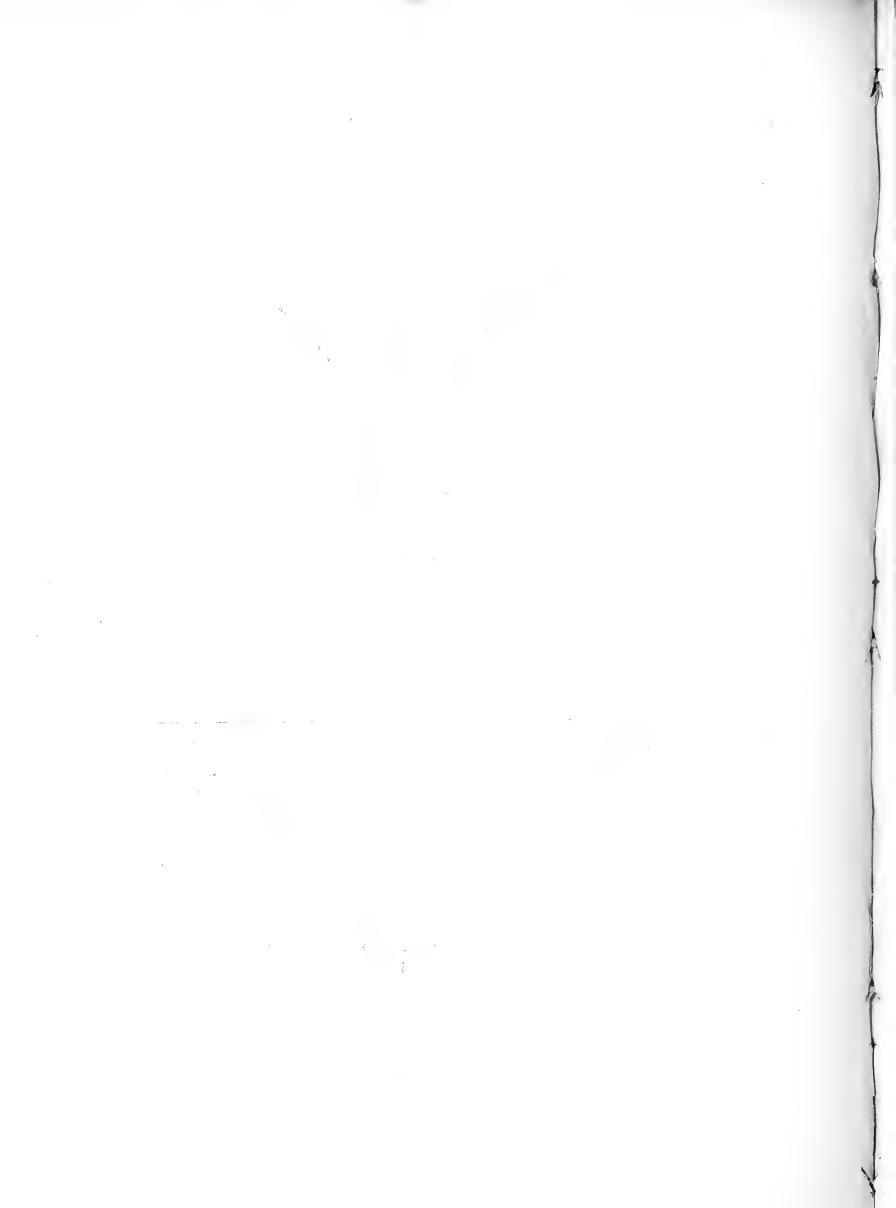
Arches, Keys, Capitals & Section of Piers.



No 106

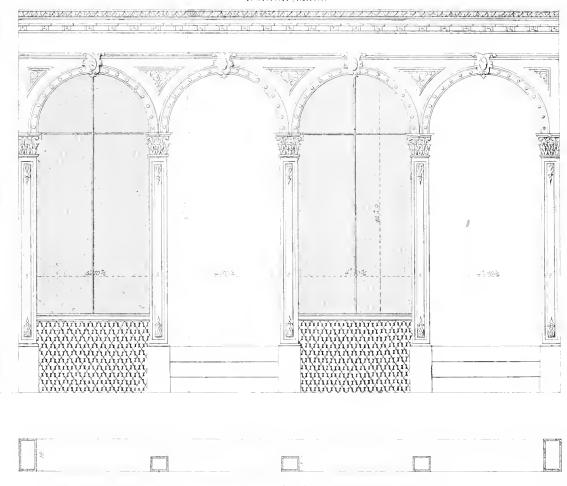


ARCHITECTURAL IRON WORKS, NEW YORK



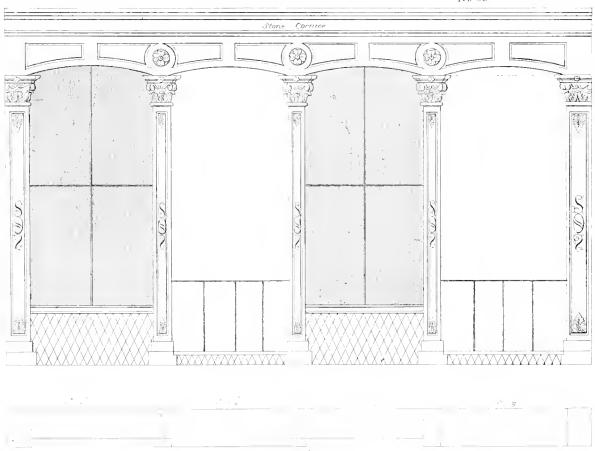
Store Front for Mr Kramer Boston, Mass



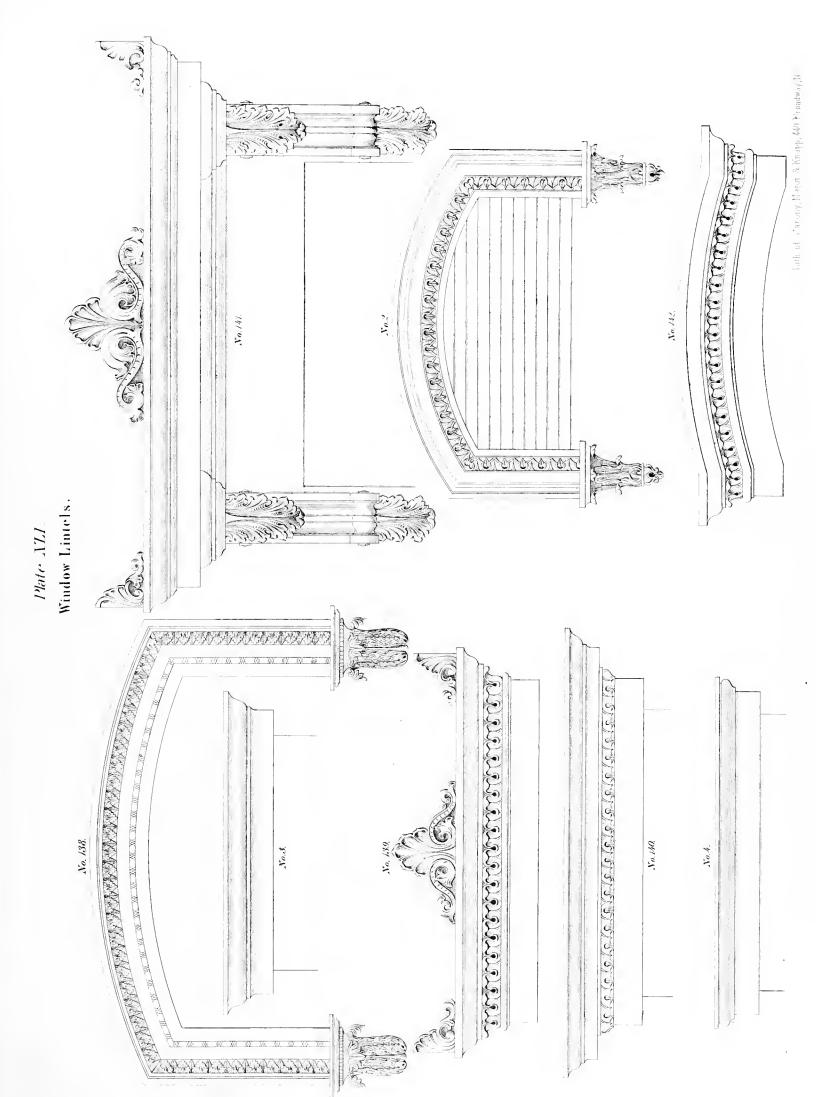


Store Front for 267 Bowery.

No-68







ARCHITECTURAL IRON WORKS, NEW-YORK.

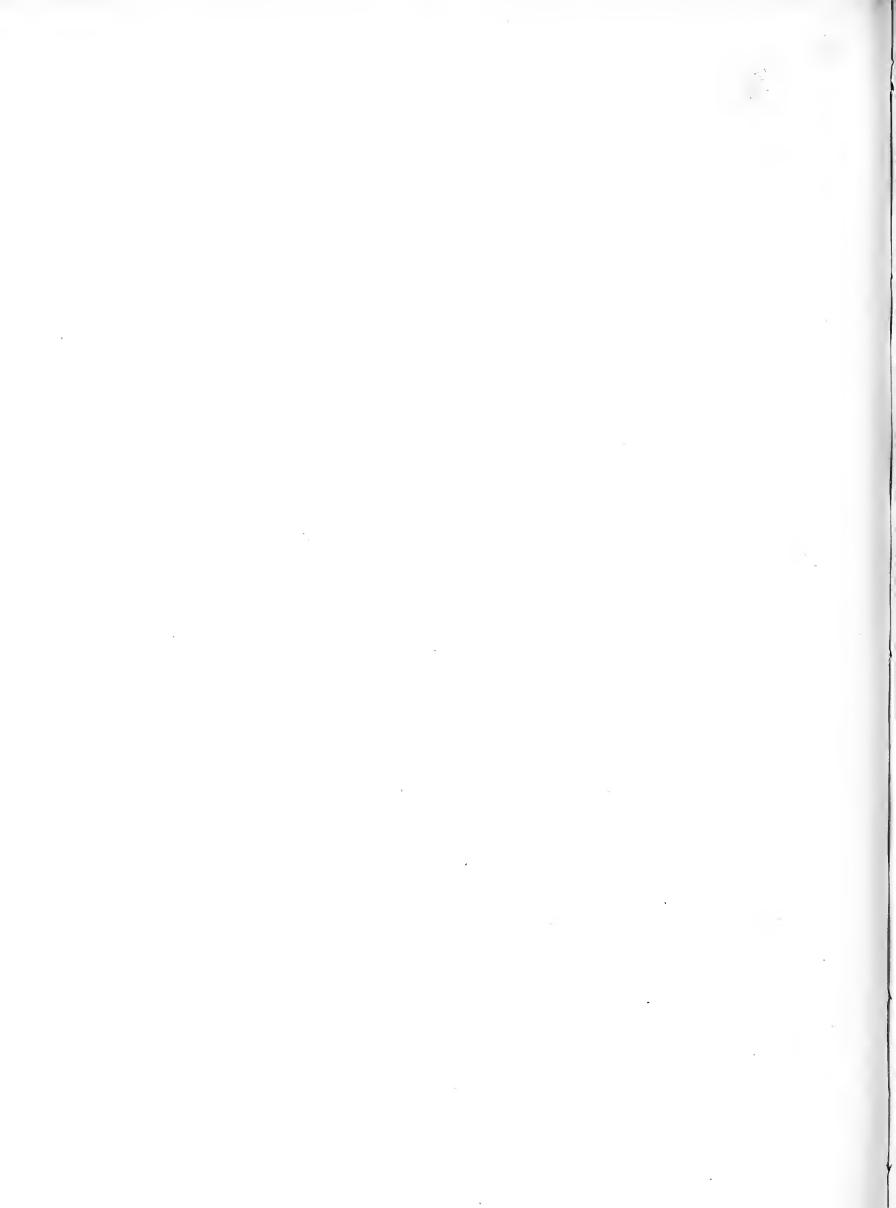
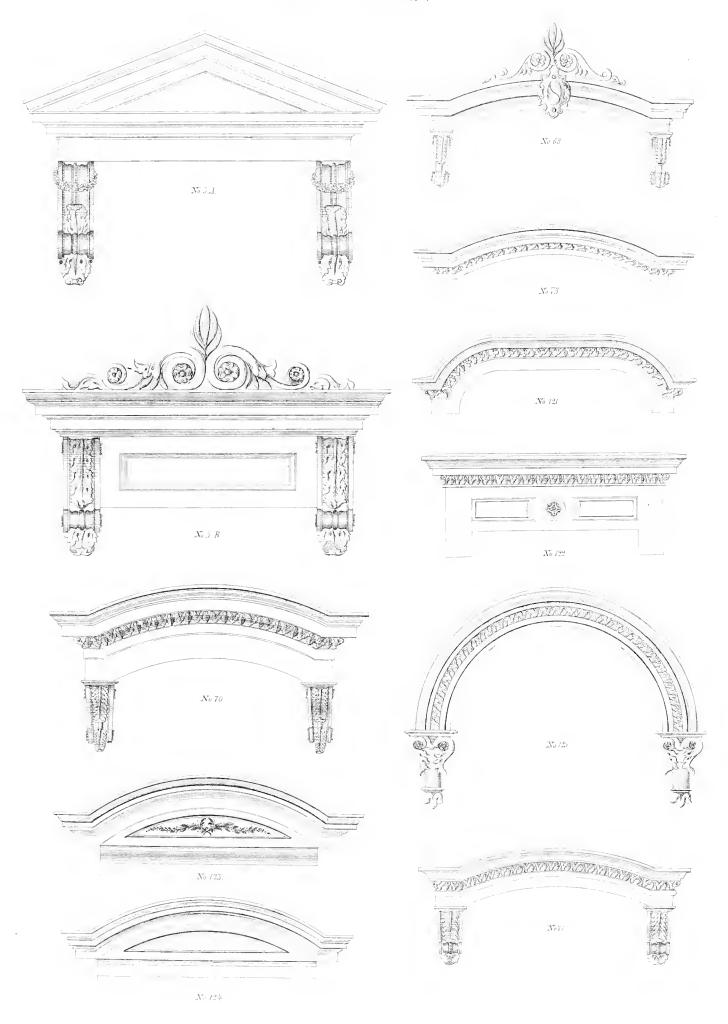


Plate AZH
Window Lintels.



Lith it Sarony Major & Knapp, 449 Broadway

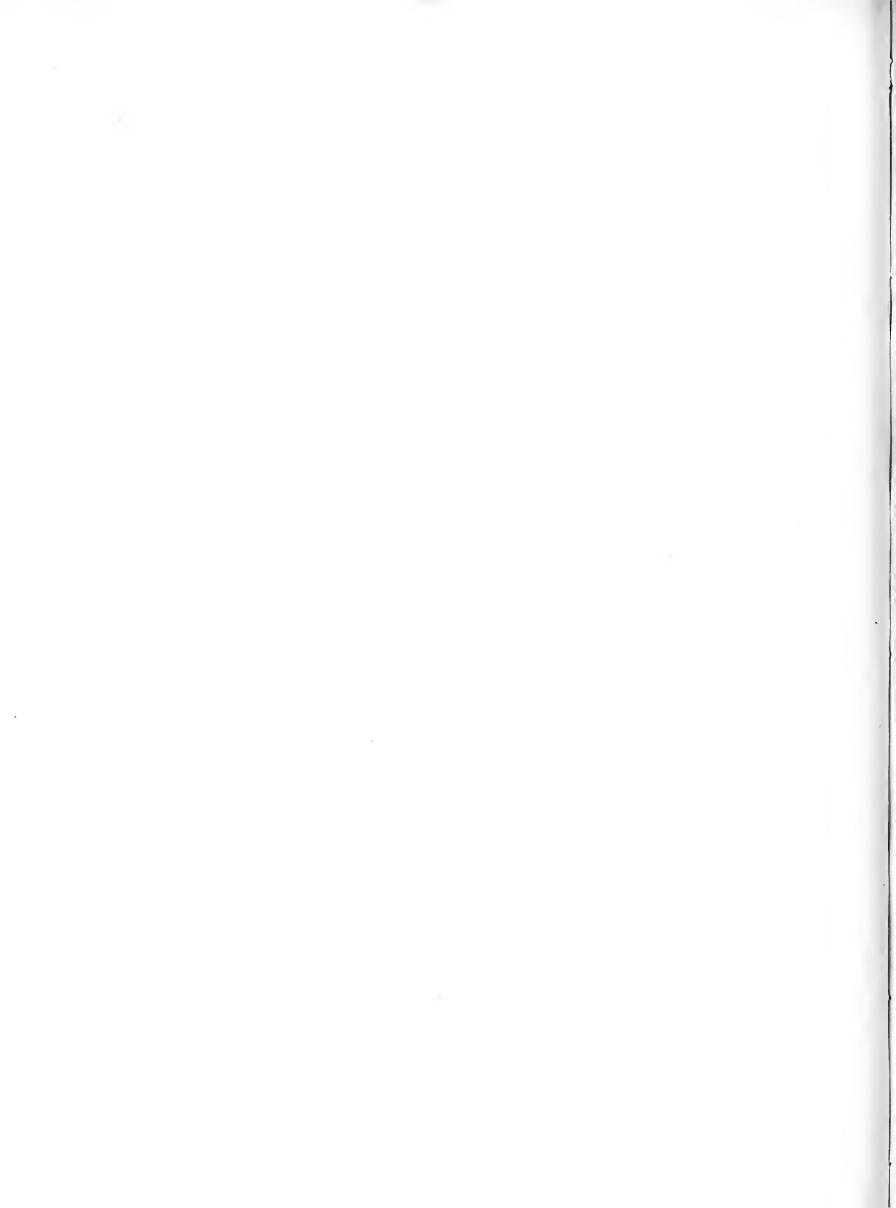
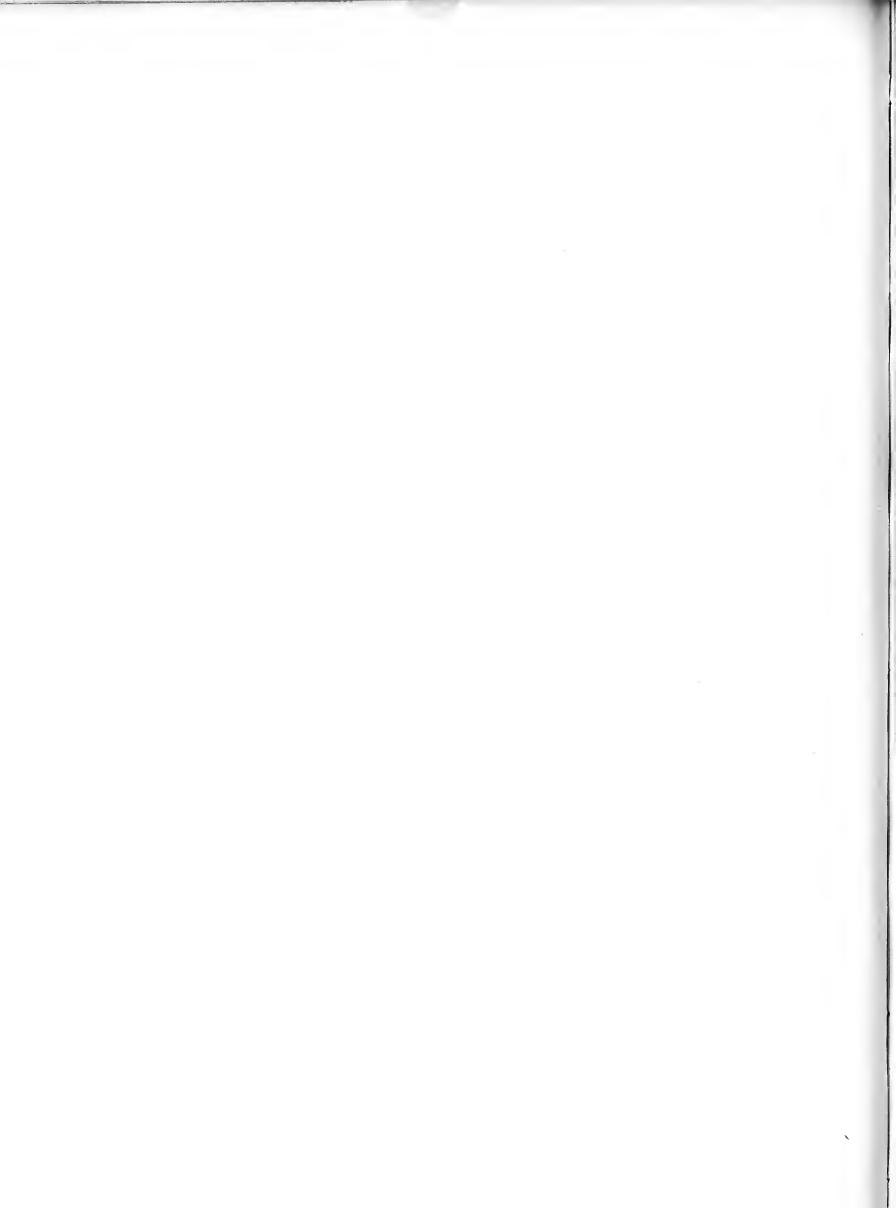


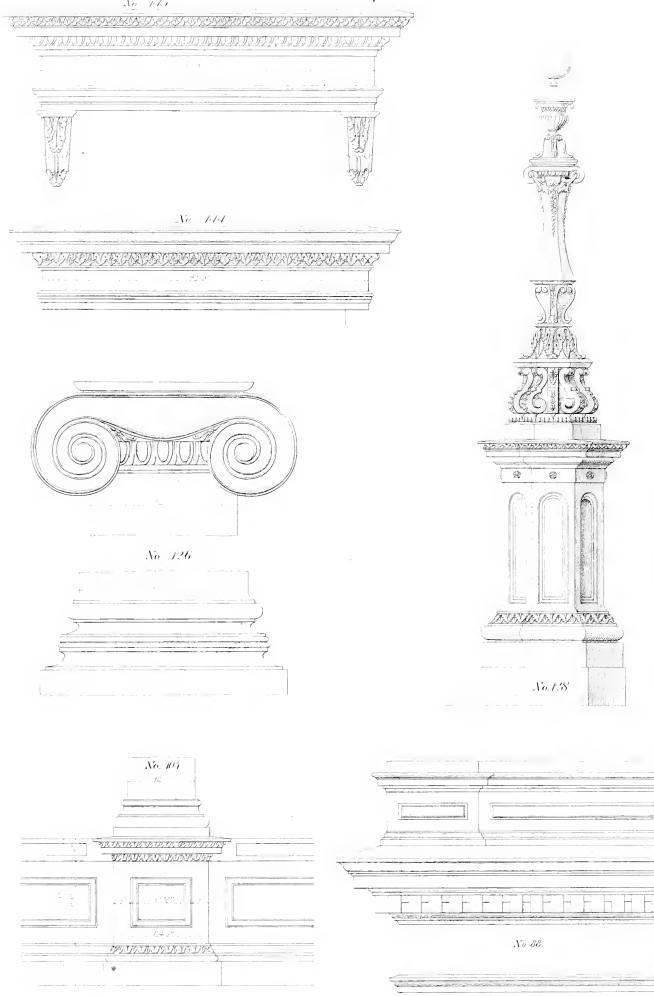
Plate XLIII
Awning Posts & Rod.



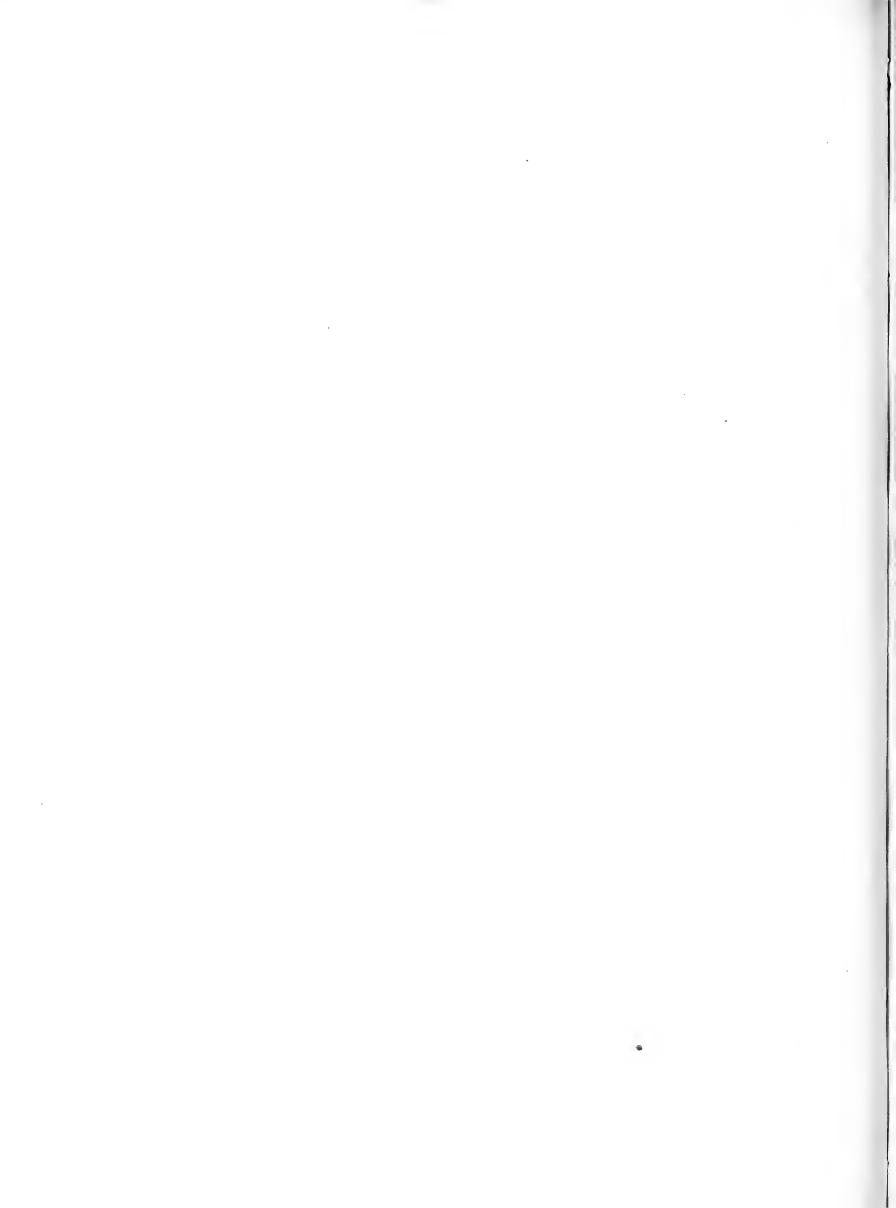
ARGHITECTURAL IRON WORKS, NEW-YORK.



Window Lintels, Lamp Post, etc.



ARCHITECTURAL IRON WORKS, NEW-YORK



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Lith of Barony Major is Kingpy. 40 Broadway, N i

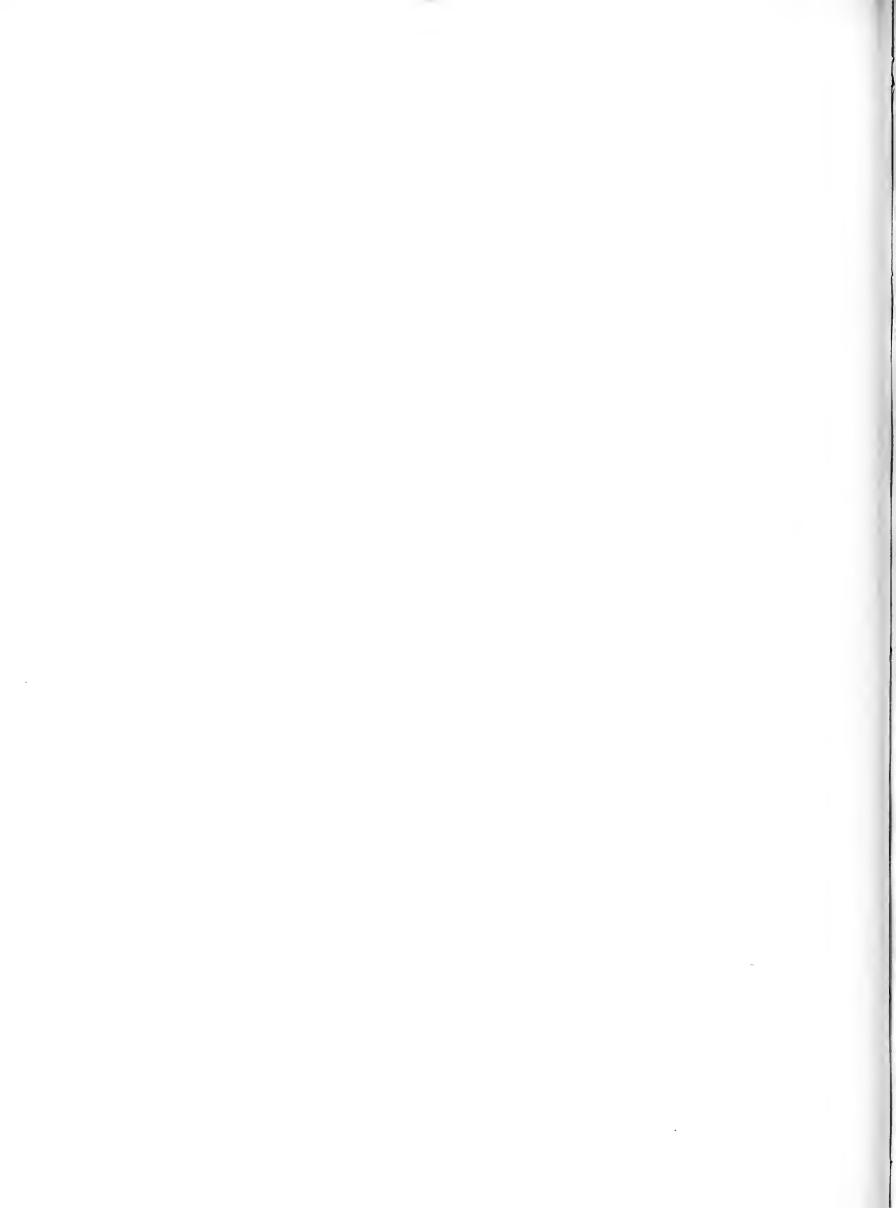
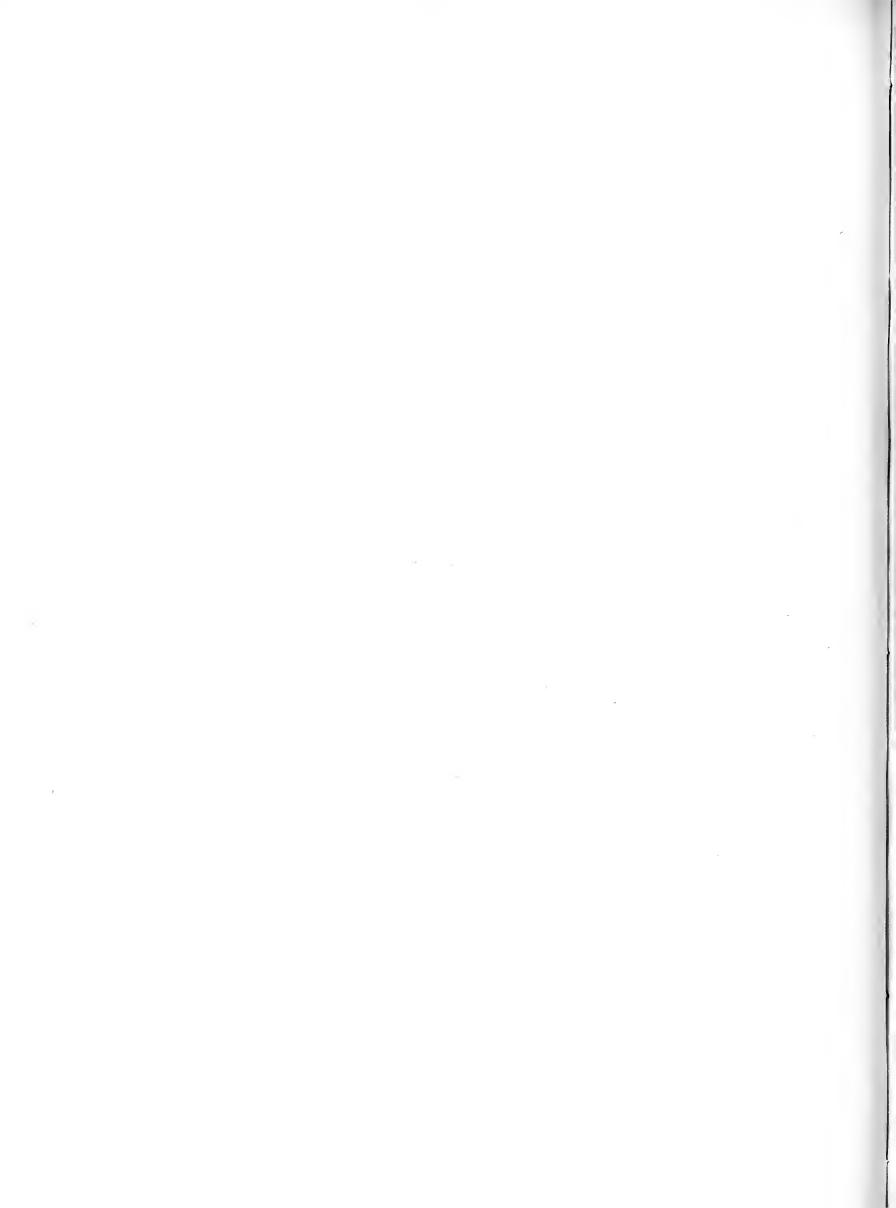
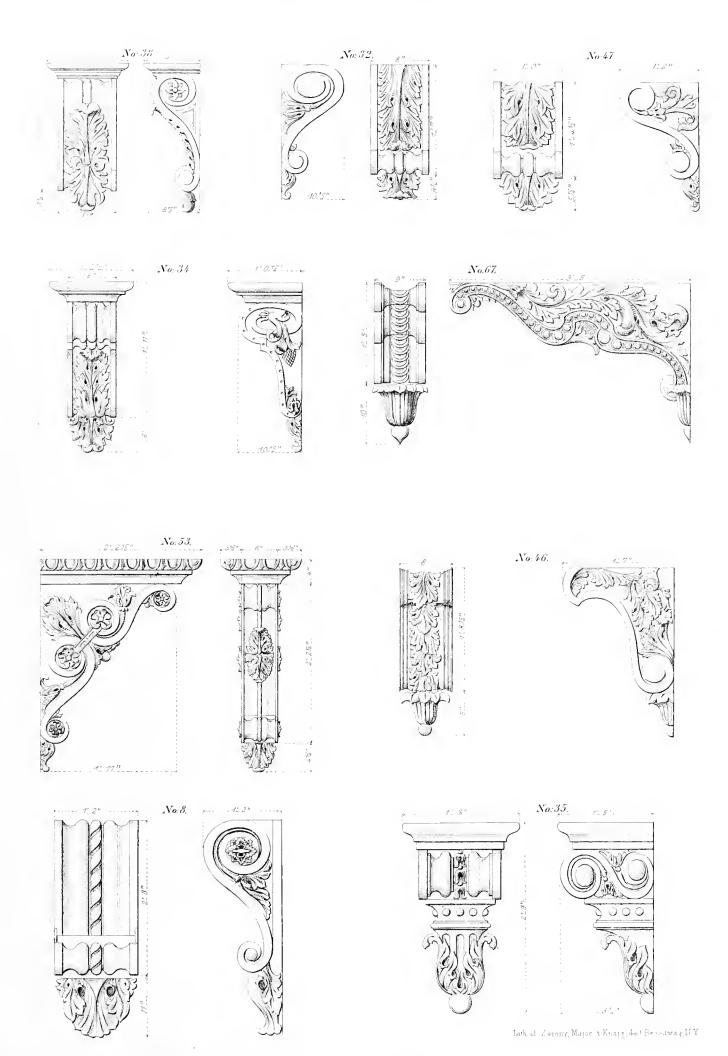


Plate XXIT

ARCHITECTURAL, TRON WORKS, NEW YORK



Consoles and Brackets



ARCHITECTURAL IRON WORKS, _ NEW-YORK

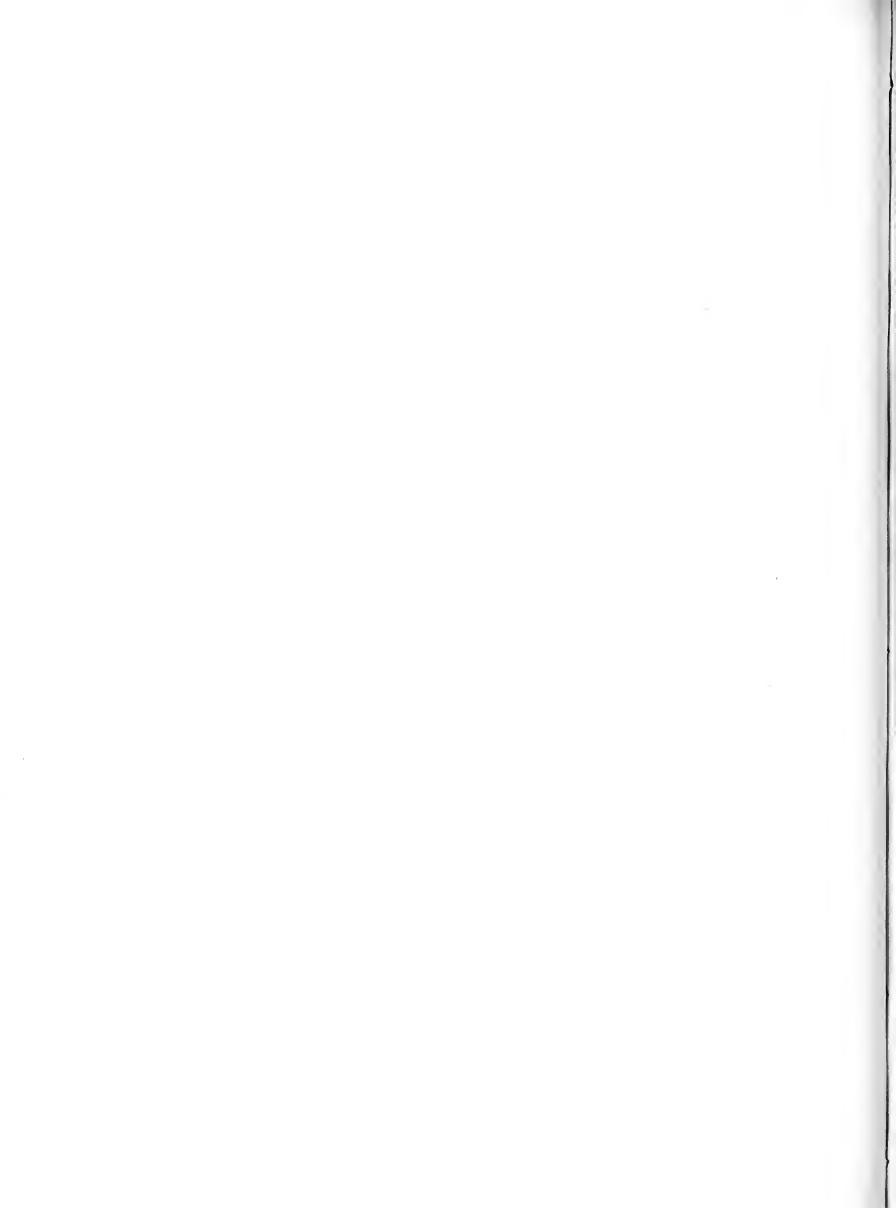
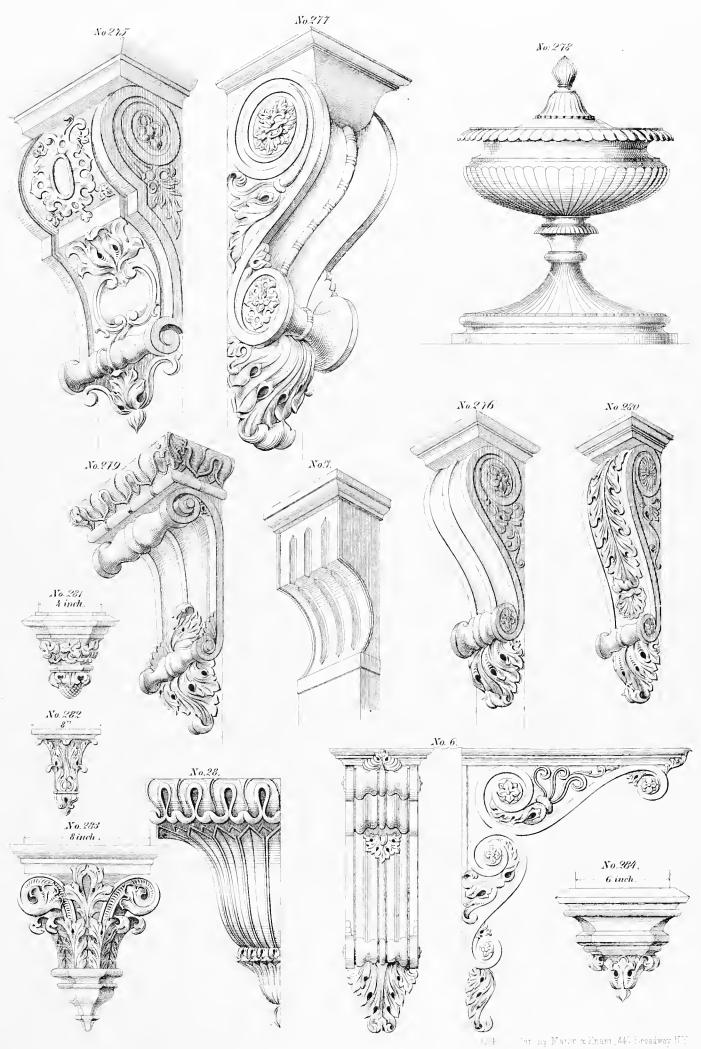


Plate AZIMI
Consoles Corbels & Urn.



ARCHITECTURAL IRON WORKS,_NEW-YORK.

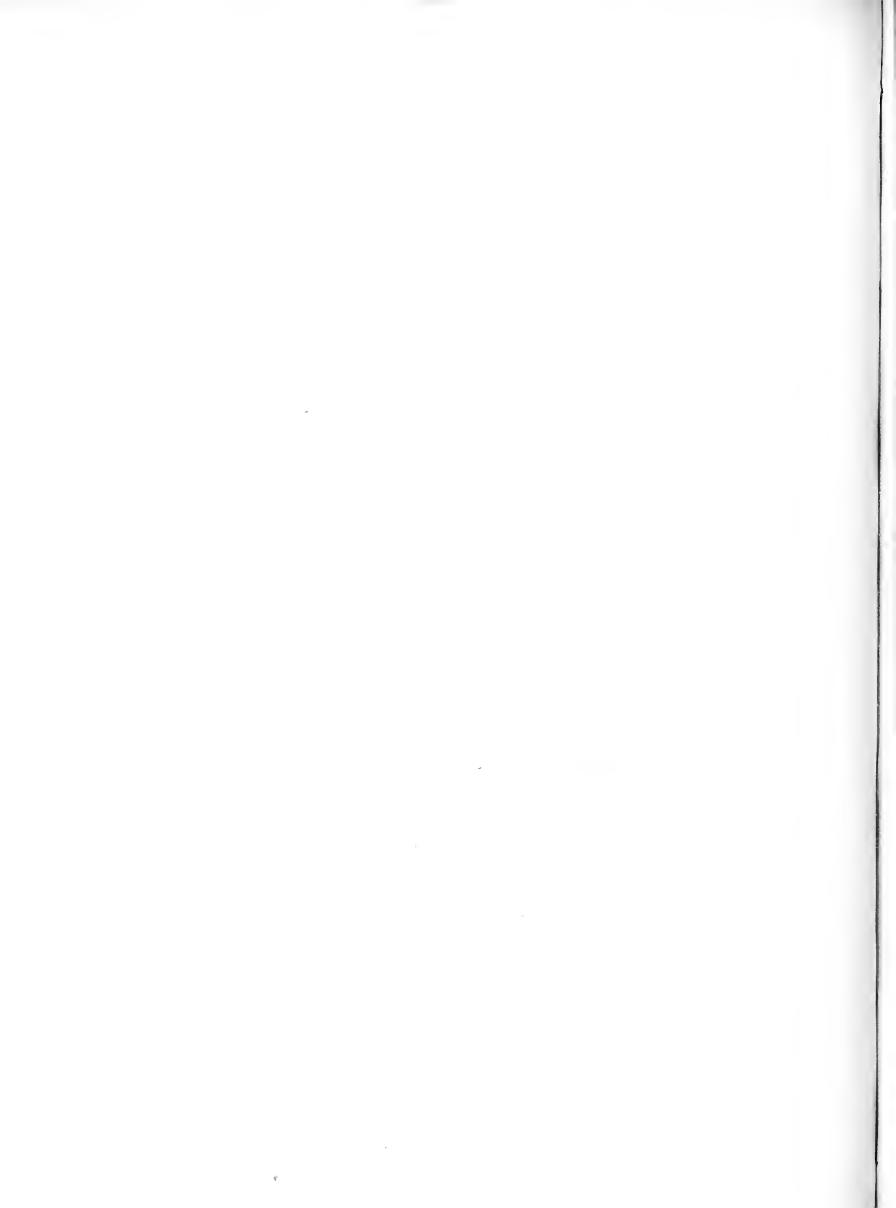
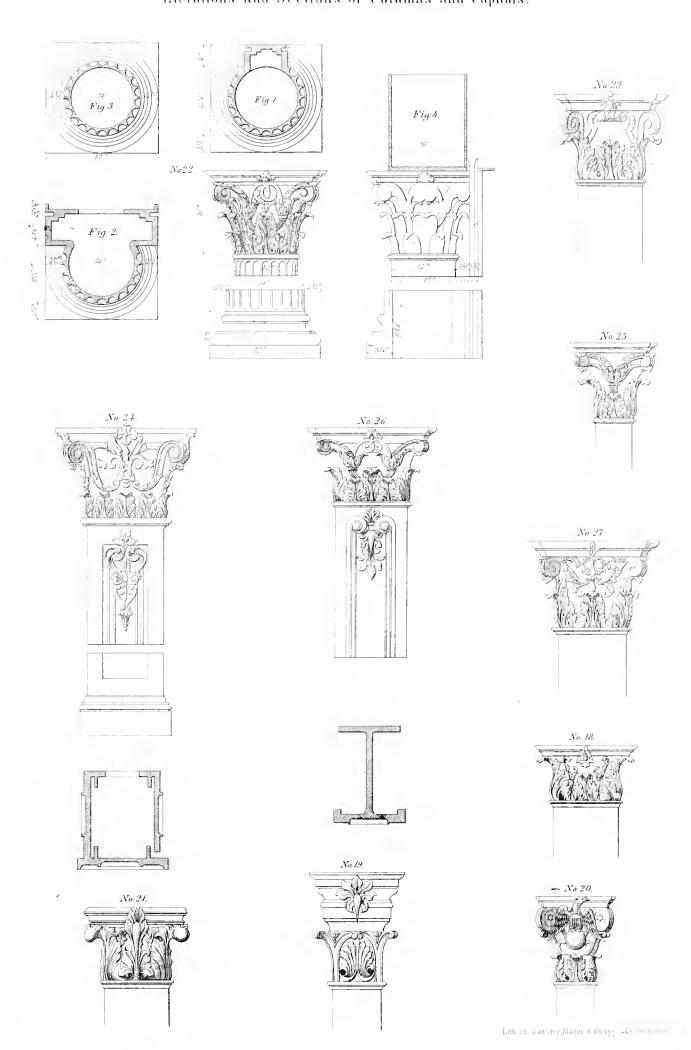
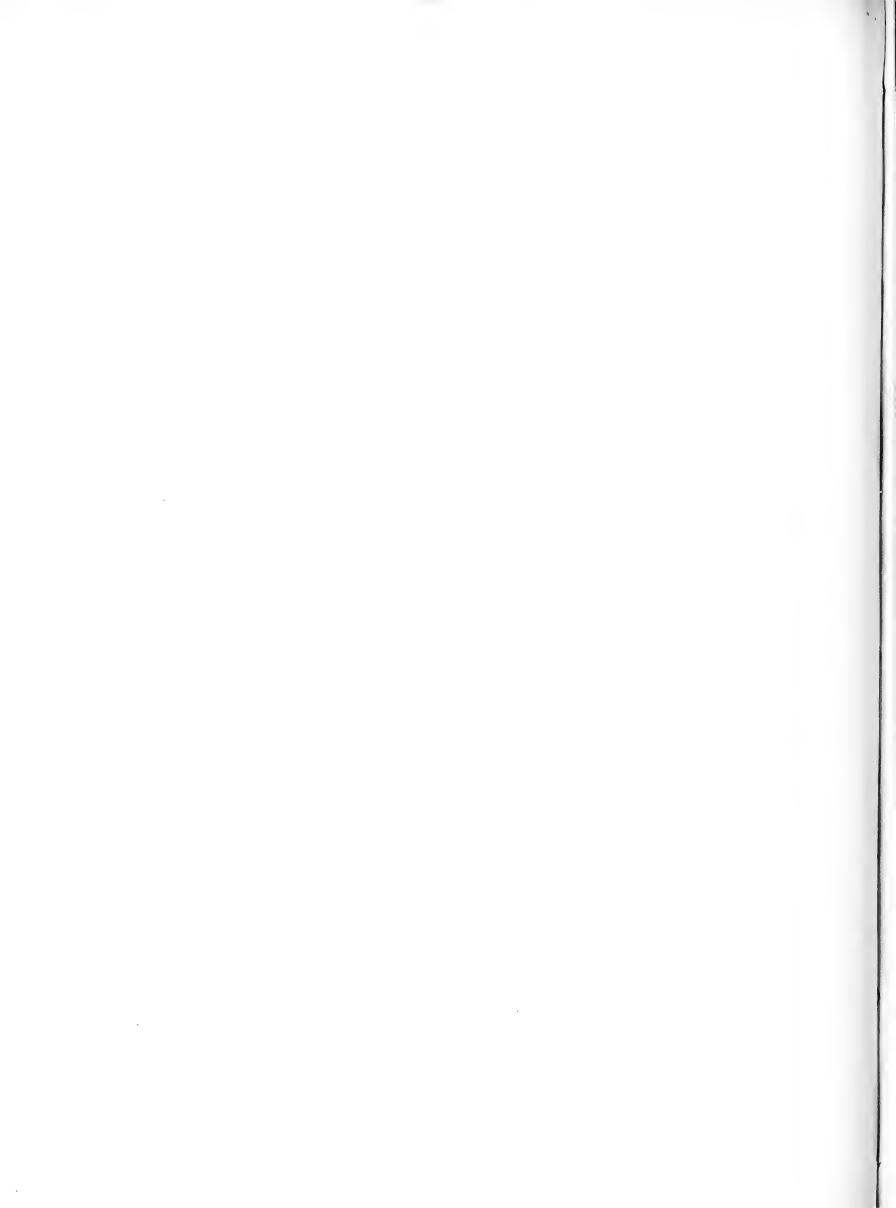


Plate AZZY.

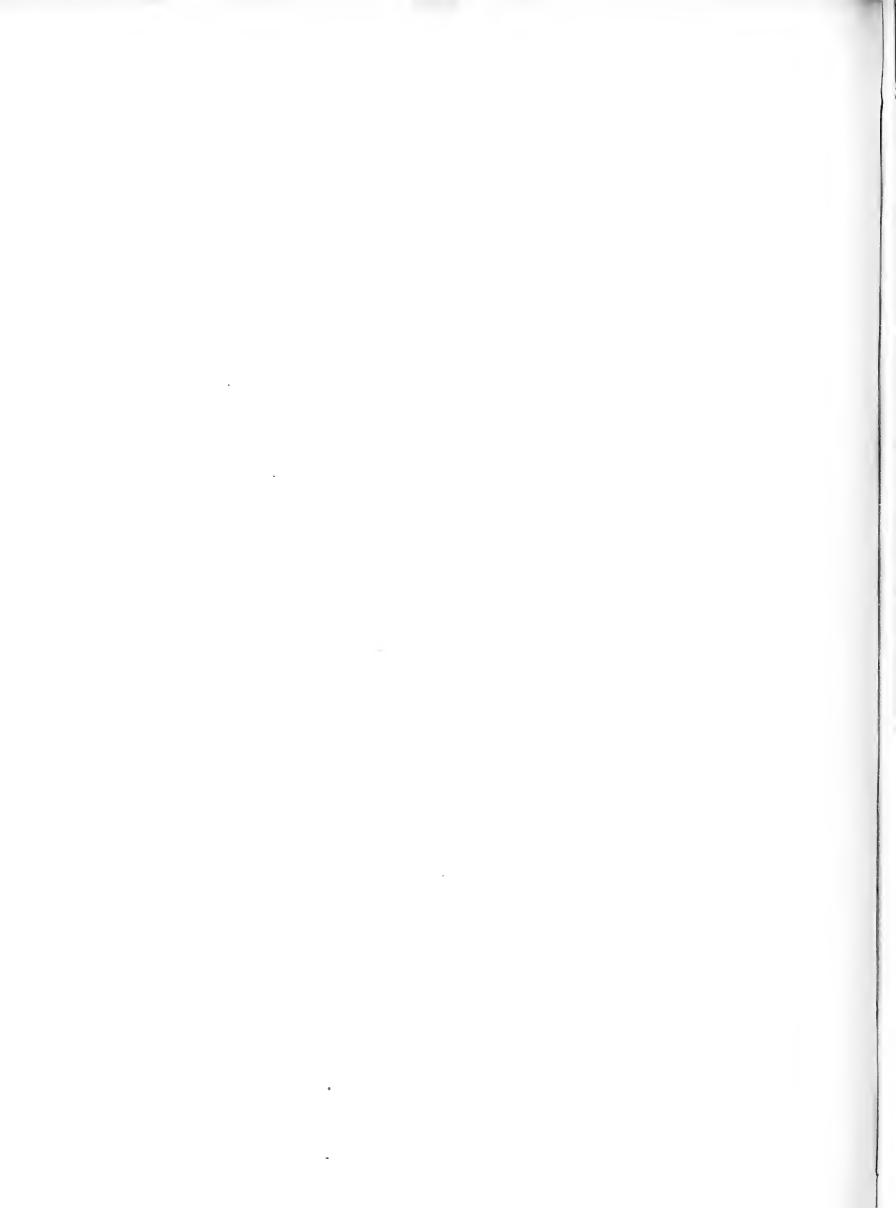
Elevations and Sections of Columns and Capitals.

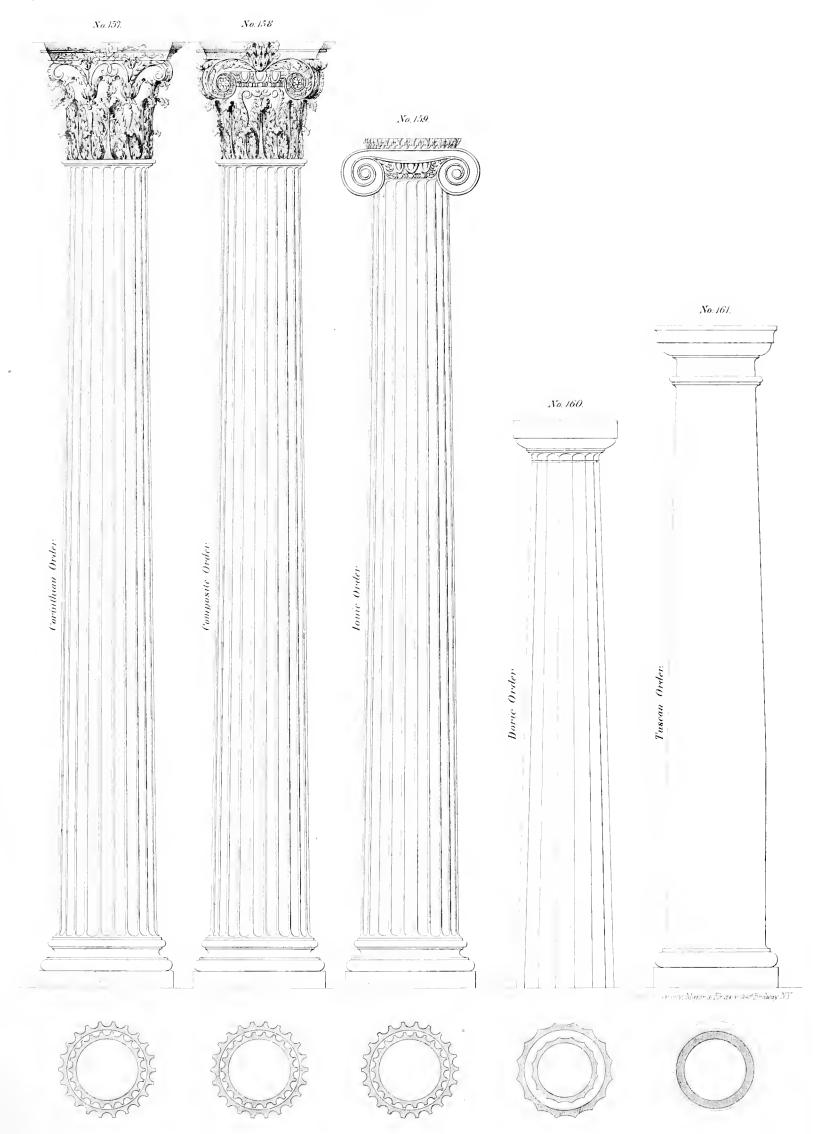


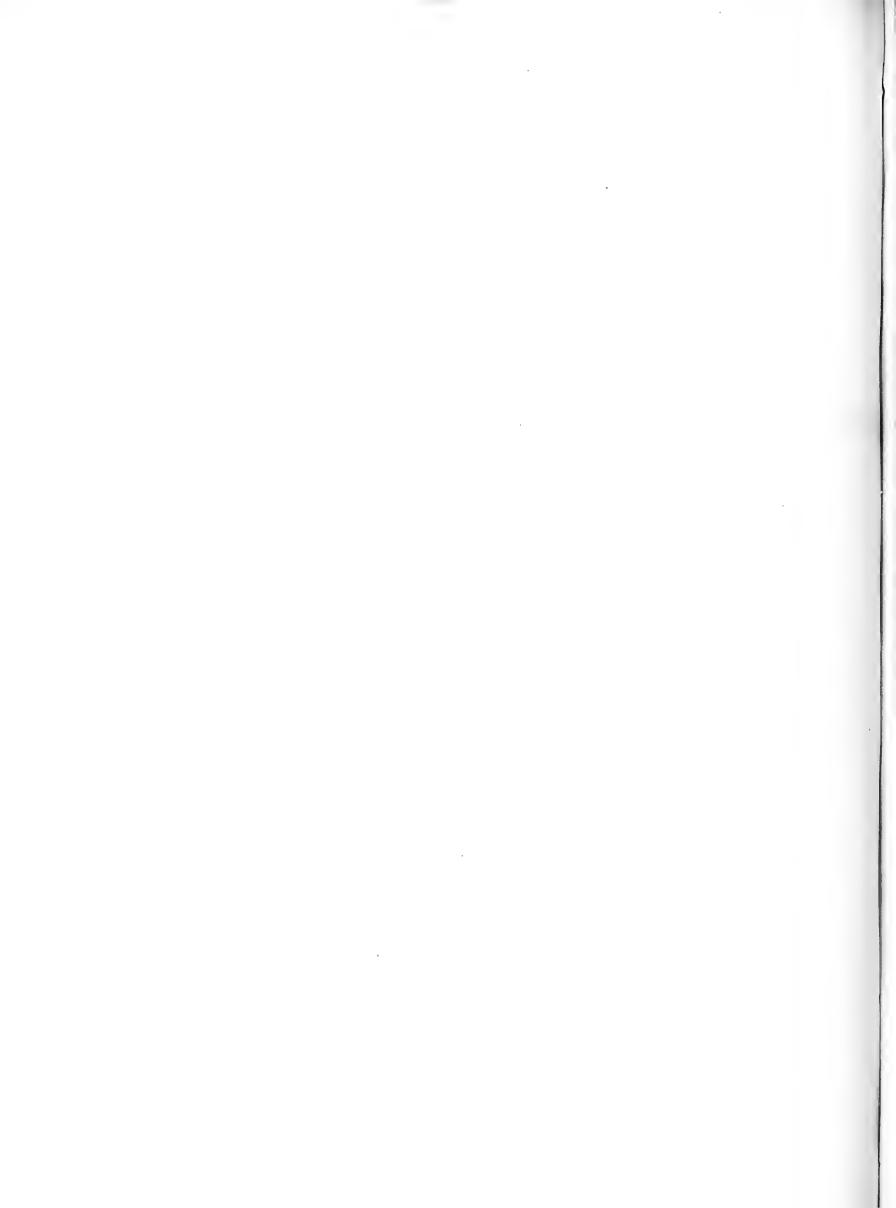
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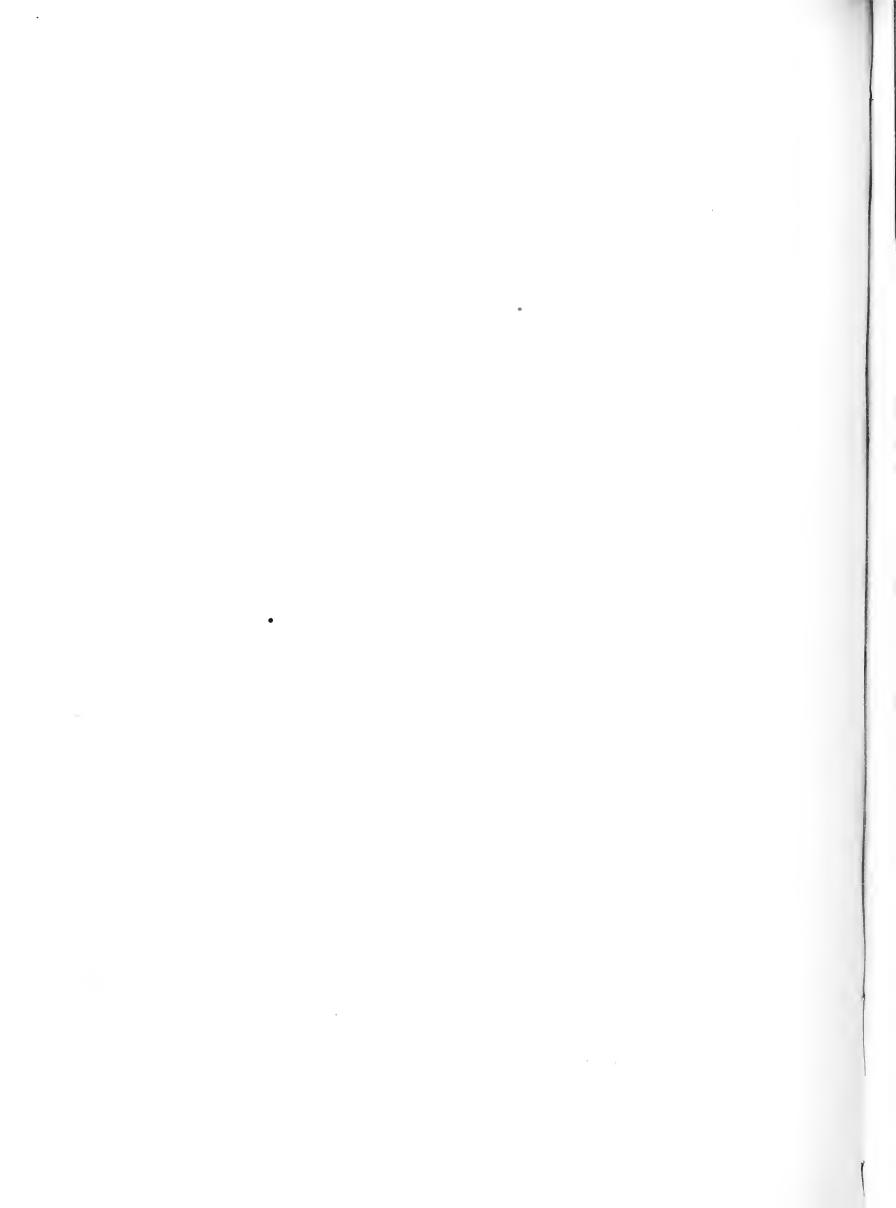
Plate LH

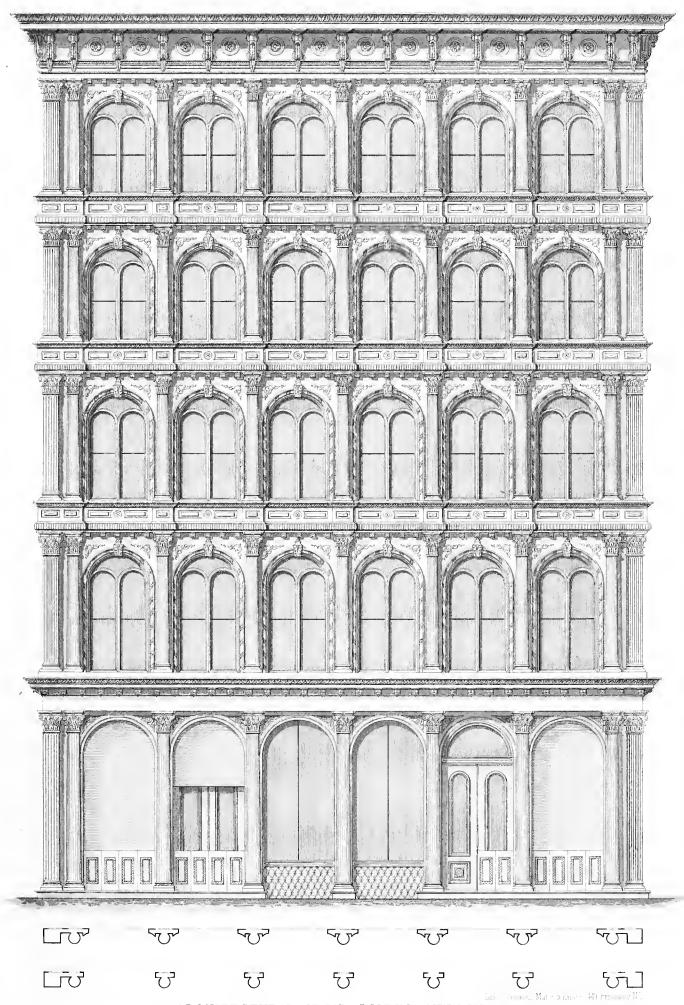
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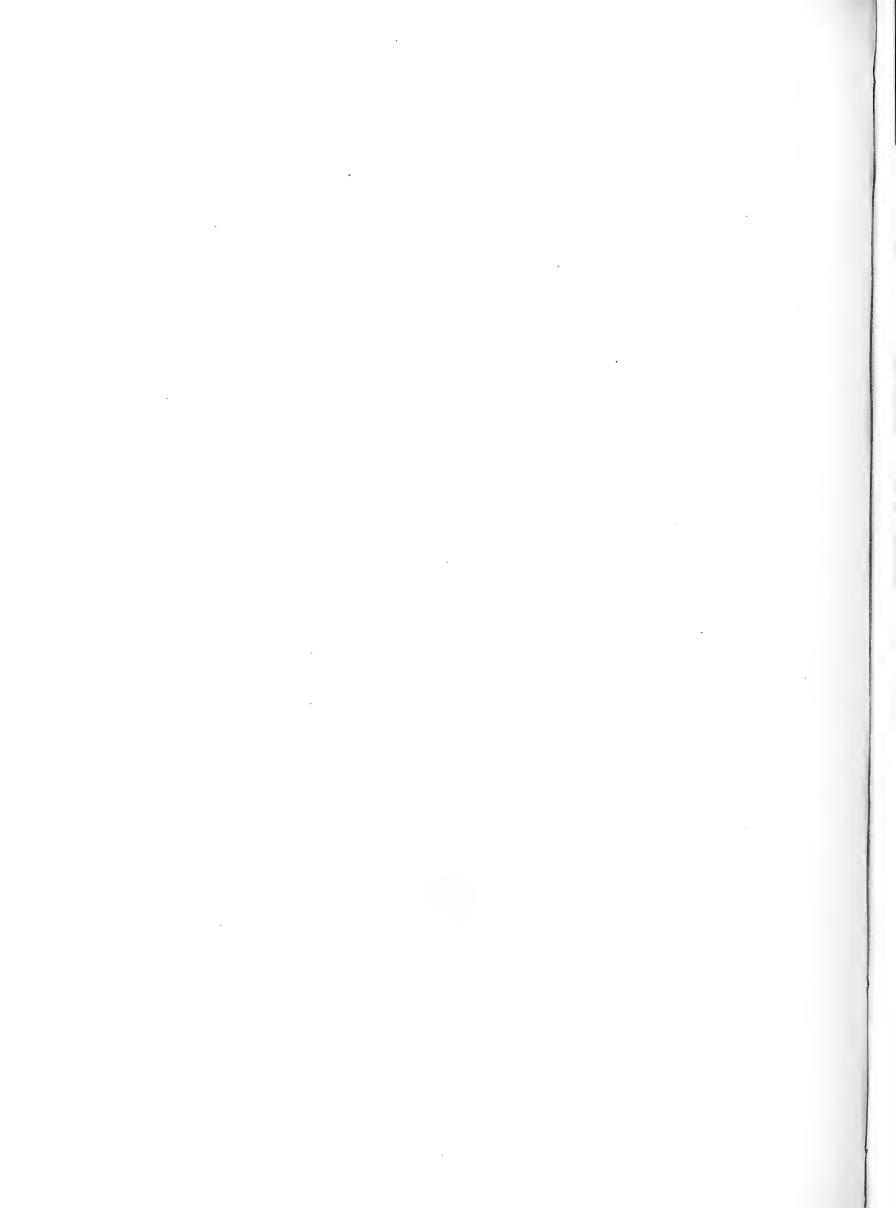
Plate LIII

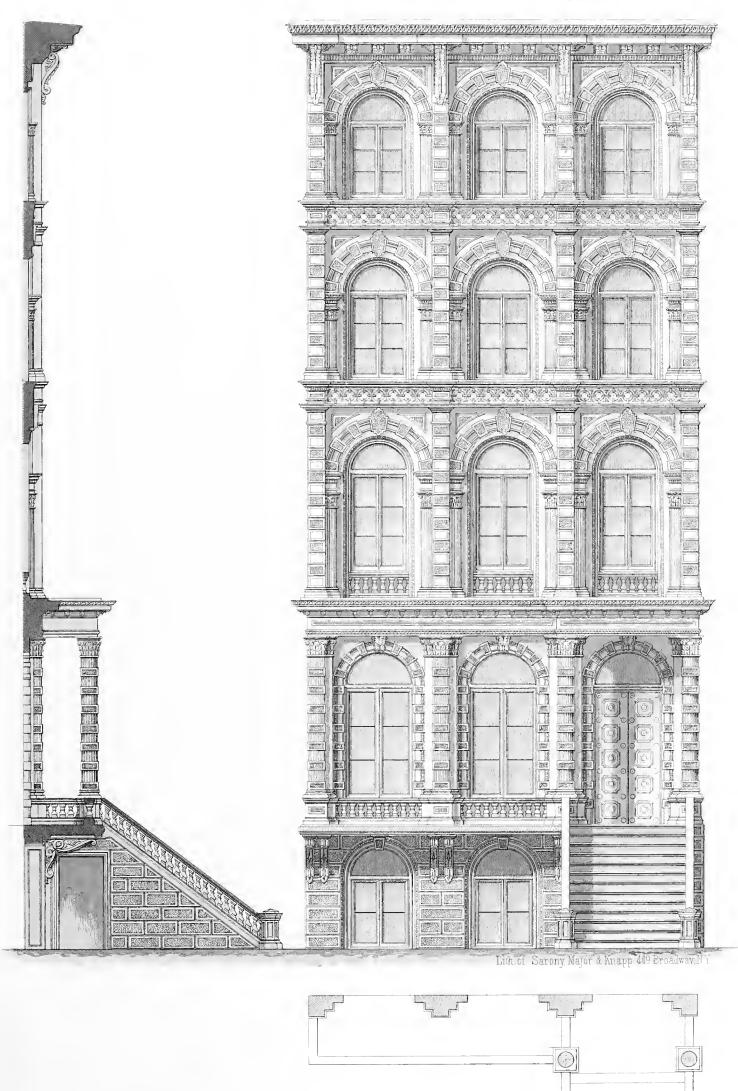
ARCHITECTURAL IRON WORKS, NEW YORK.



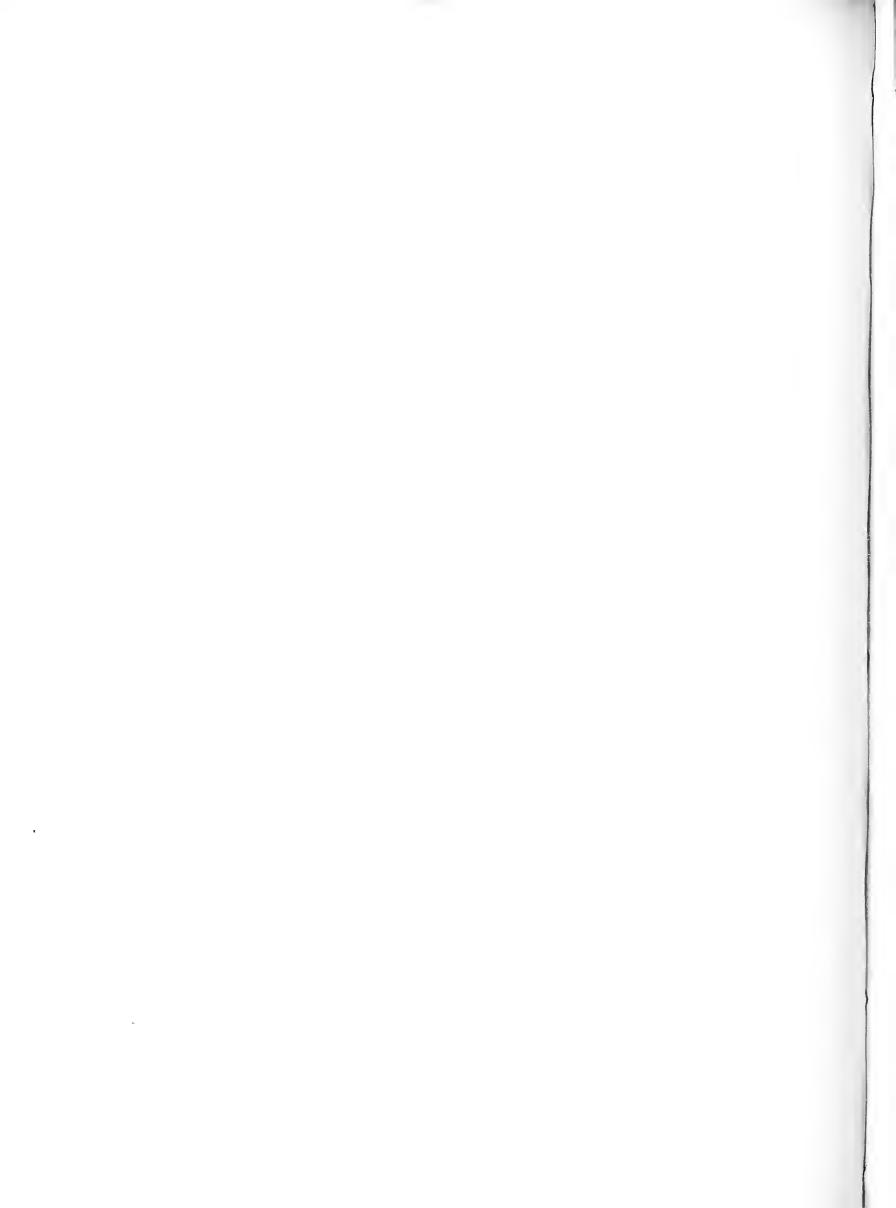


ARCHITECTURAL IRON WORKS,_NEW-YORK



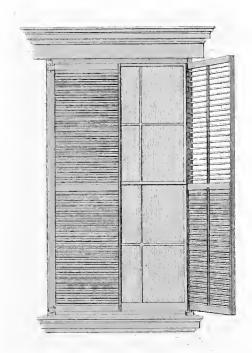


ARCHITECTURAL IRON WORKS, _ NEW-YORK.

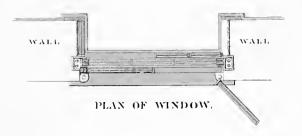


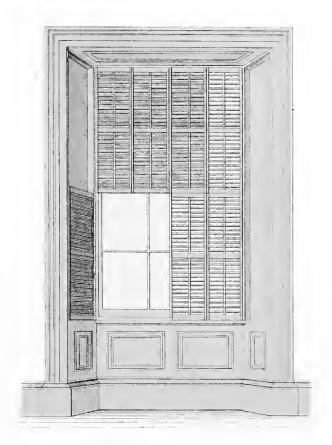
PATENT METALLIC WINDOW BLINDS

BURGLAR & FIRE-PROOF.



ELEVATION showing Blinds for OUTSIDE USE



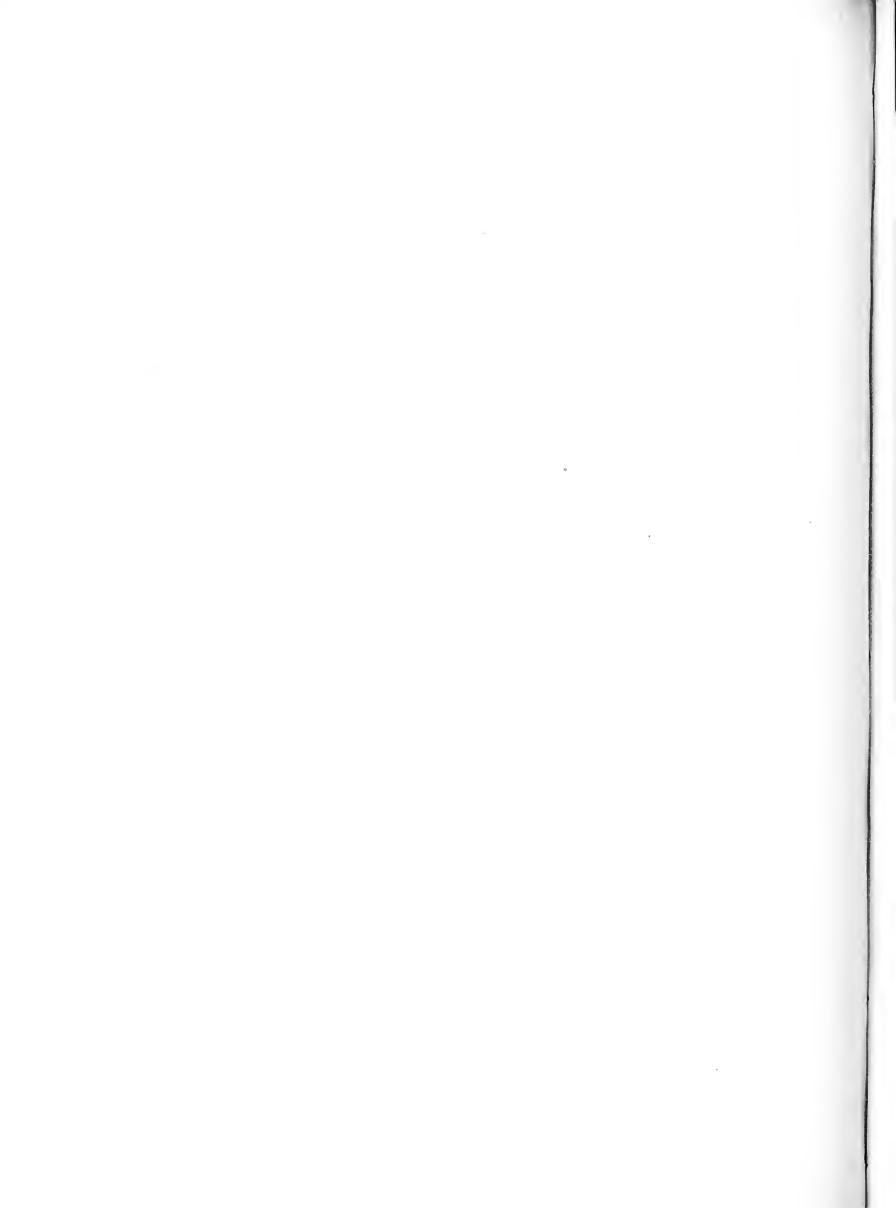


ELEVATION showing Blinds for INSIDE USE

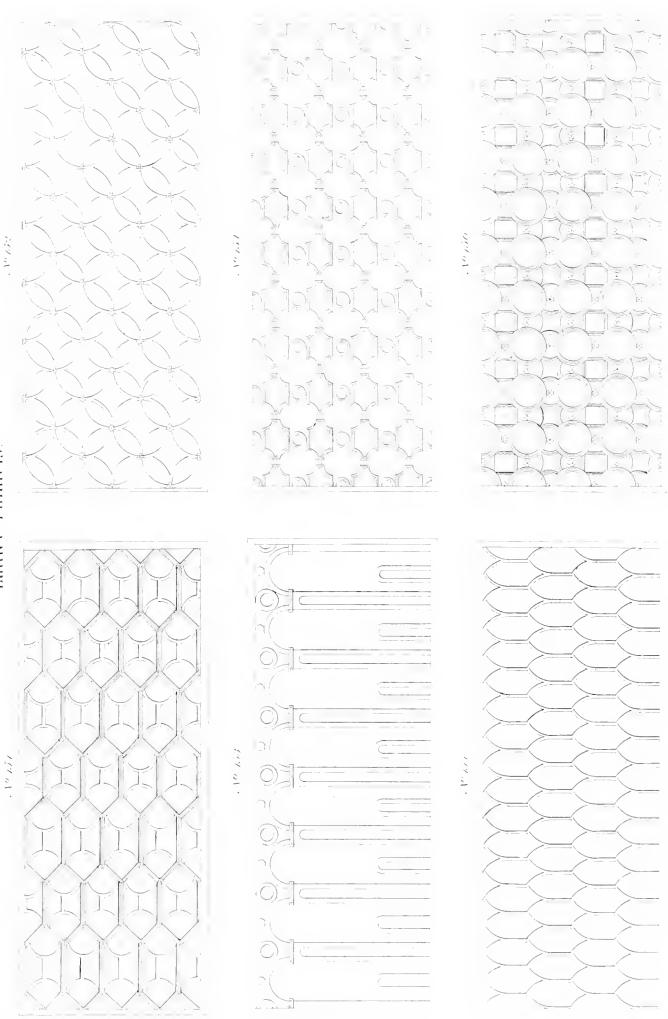
This Blind obviates all the difficulties and inconveniences of the wooden Blind, and is designed to superside the folding iron shutter and the entside and inside wooden blind and shutter. It is fire proof and by actual experiment is shown to resist the fire much longer than the ordinary iron shutter, and water thrown on it while hot will not curve warp or open it so as to expose the window to the flames. This Blind does not shrink warp or settle by exposure to solar or artificial local or by almospheric changes, thus freeing it from those objections to the weeden blind, which so try the patience of House keepers. The wires are advays in order and can not be pulled out the slats remain unbroken and can be swadjusted as to let in the exact amount of light and air required, it is self historing and fastenings are always in order. It is substantial and, unlike the wooden blind, requires little orne repairs and is capable of the highest finish and ornament. The inside blinds are specially adapted to first class direllings, churches &c.

Many of the first Architects and Builders of this and other. Cities have given these Blinds their inqualified approval. They have been adopted by various banking henses and divellings and recently by the new Cenvi Hense in Brooklyn.

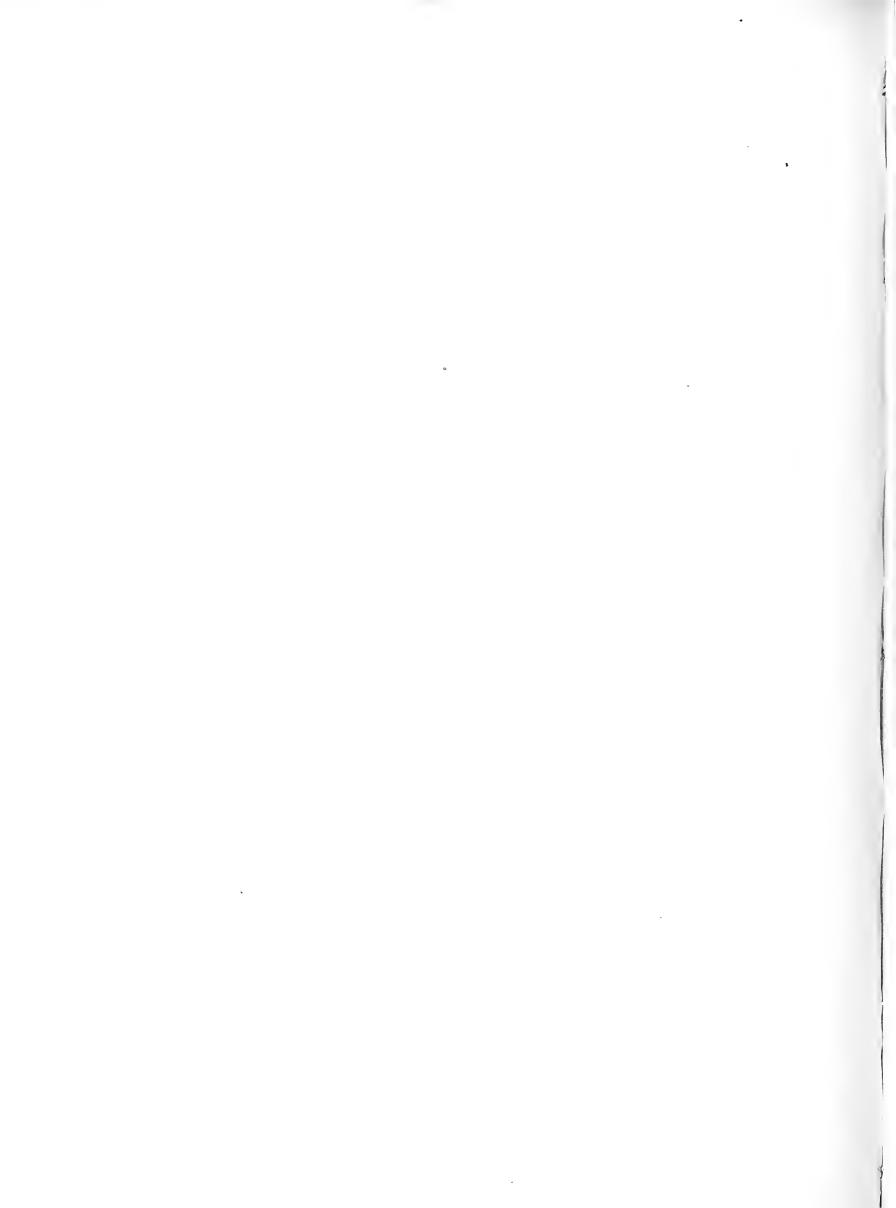
Manufactured for the American Iron Blind Company and orders received for the same by the Architectural Iron Works, 42 Duane Street, NewYork.

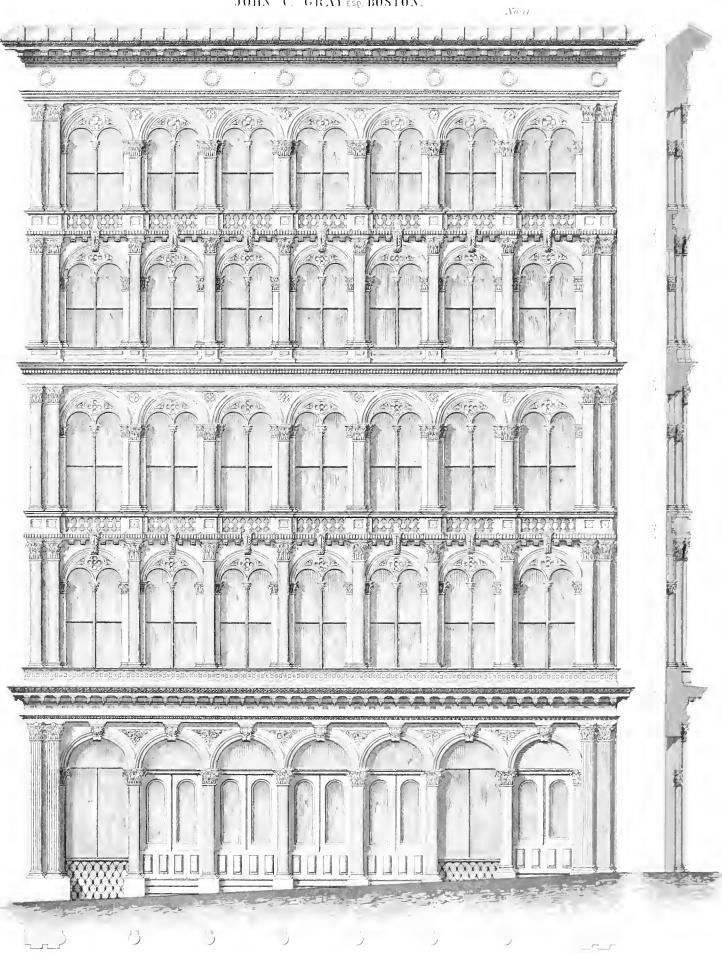


Lattice Pannels.



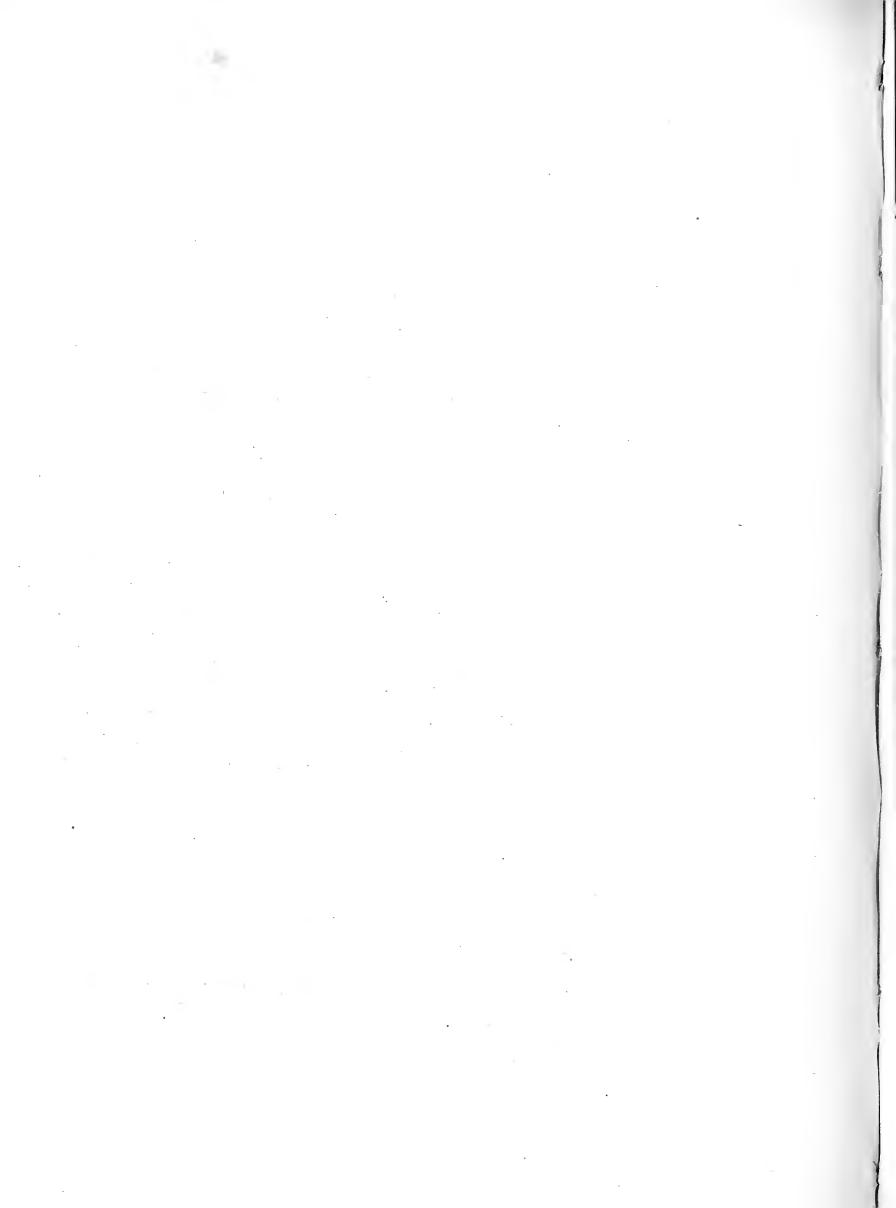
ARCHITERCTURAL IRON WORKS - NEW YORK

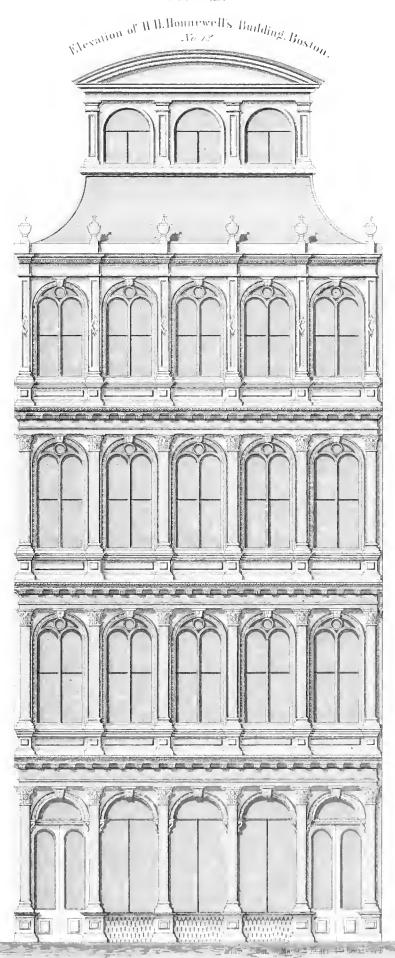




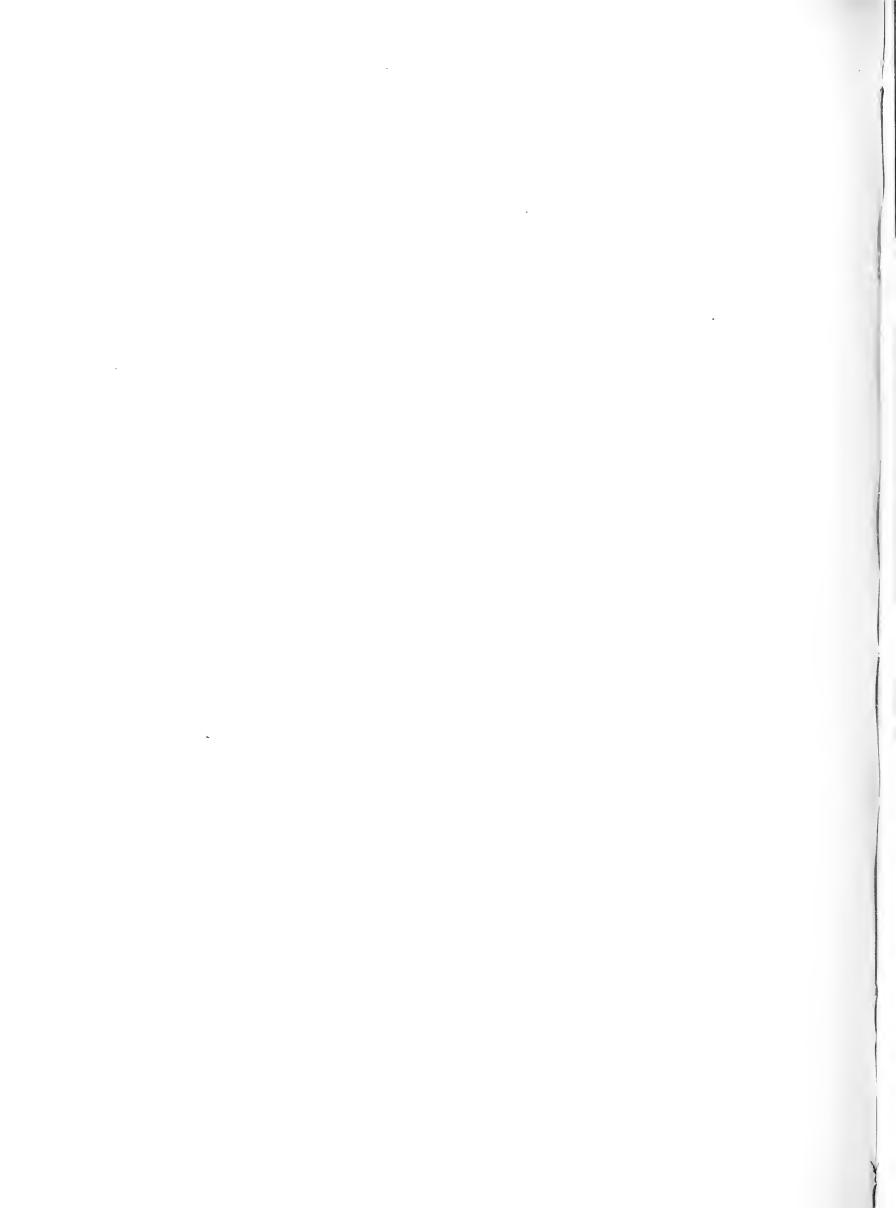
ARCHITECTURAL IRON WORKE, NEW YORK

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ARCHITECTURAL IRON WORKS, __ NEW-YORK



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Plate 188 Elevation of Grain Building.

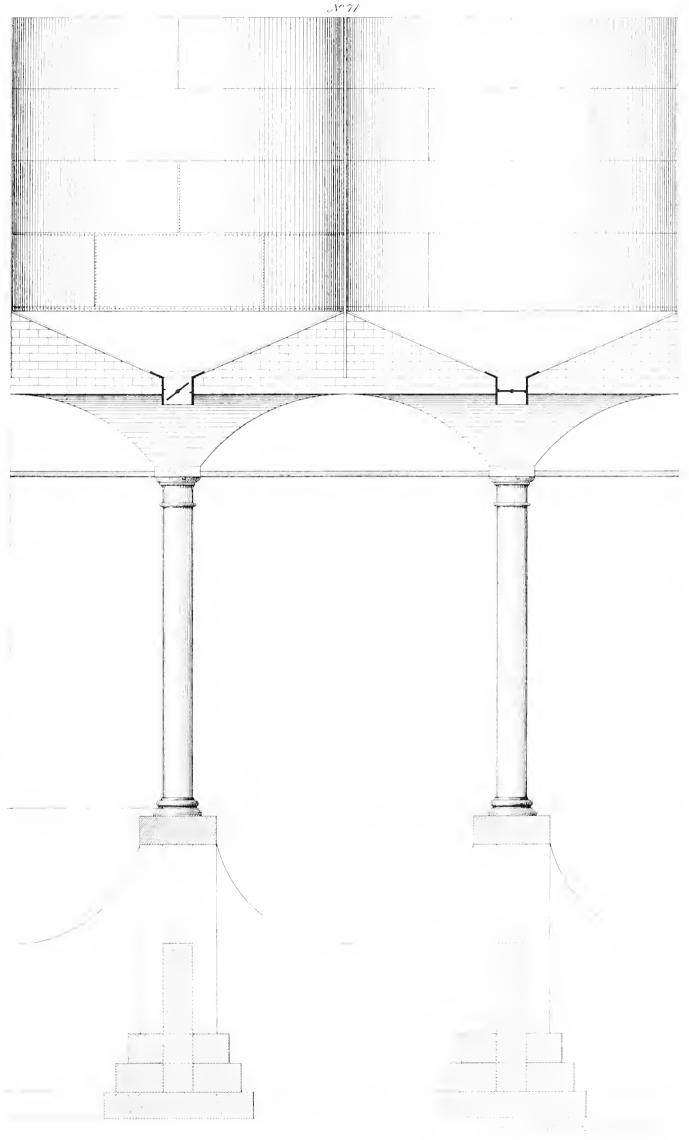
ARCHITECTURAL IRON WORKS, NEW-YORK



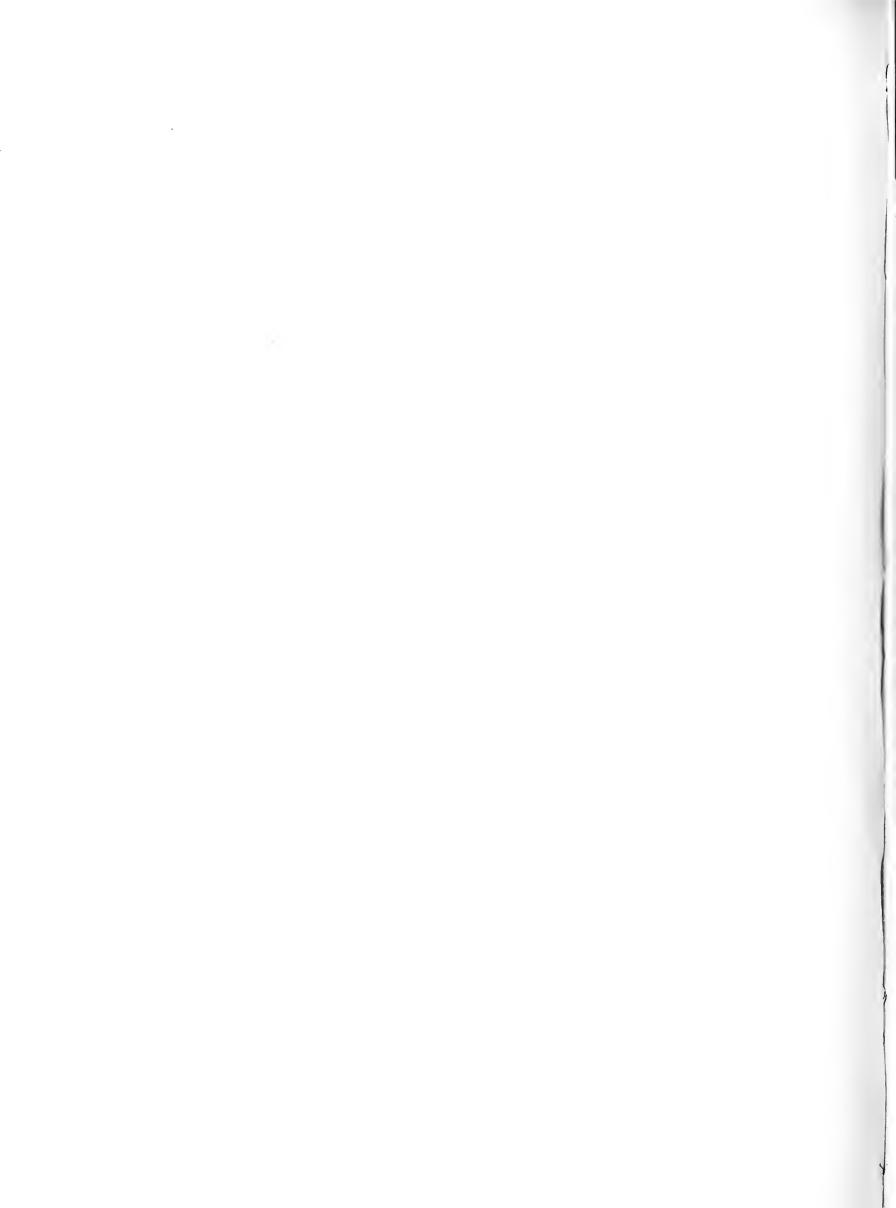
Plate LNI Details of Grain Building.

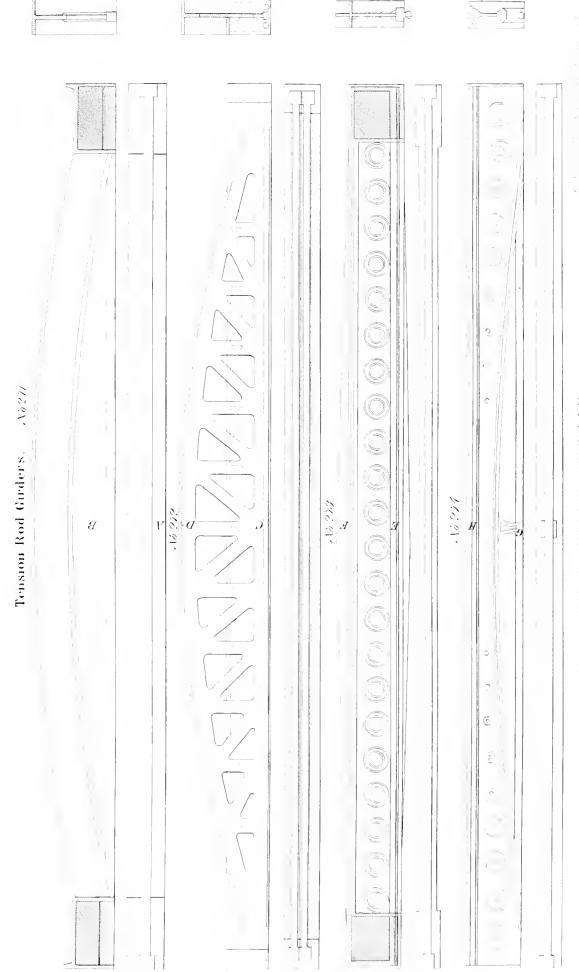
ARCHITECTURAL IRON WORKS, NEW-YORK



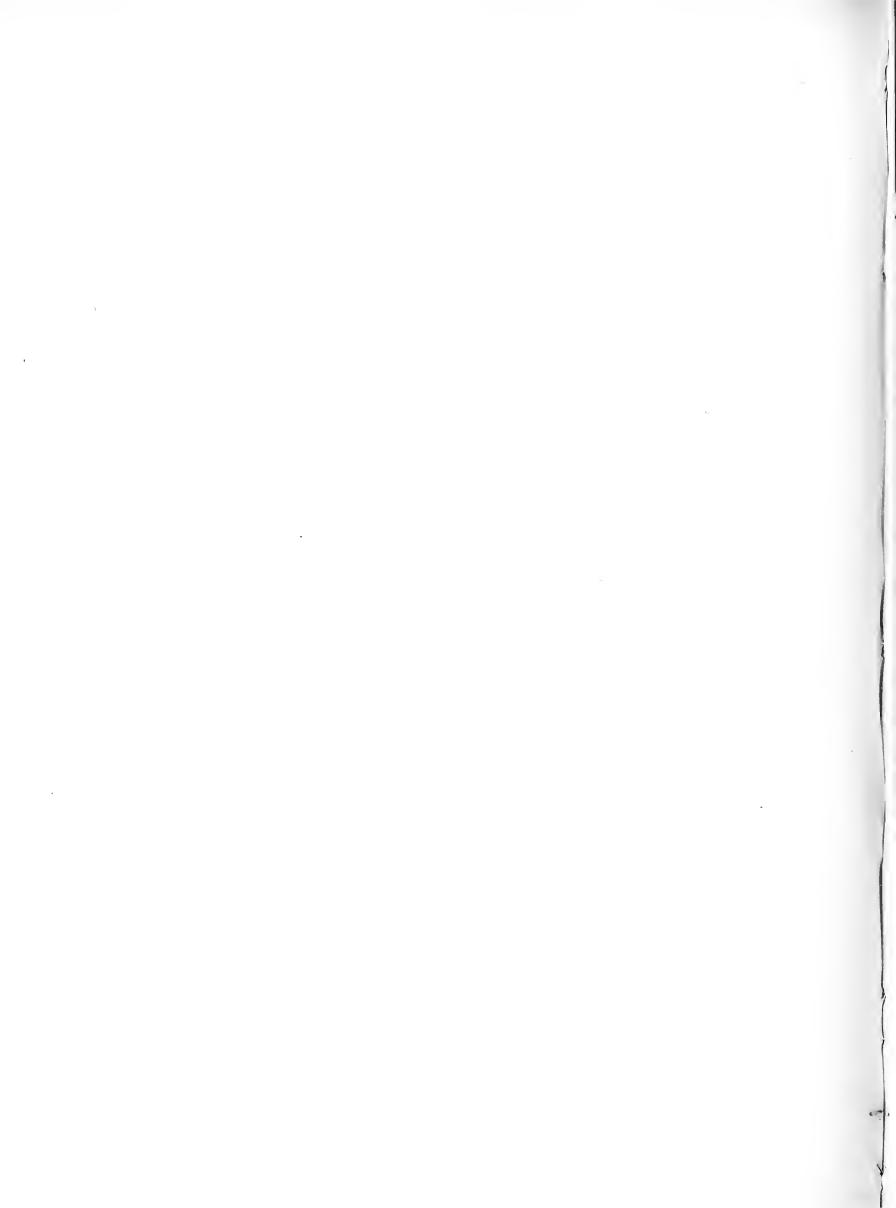


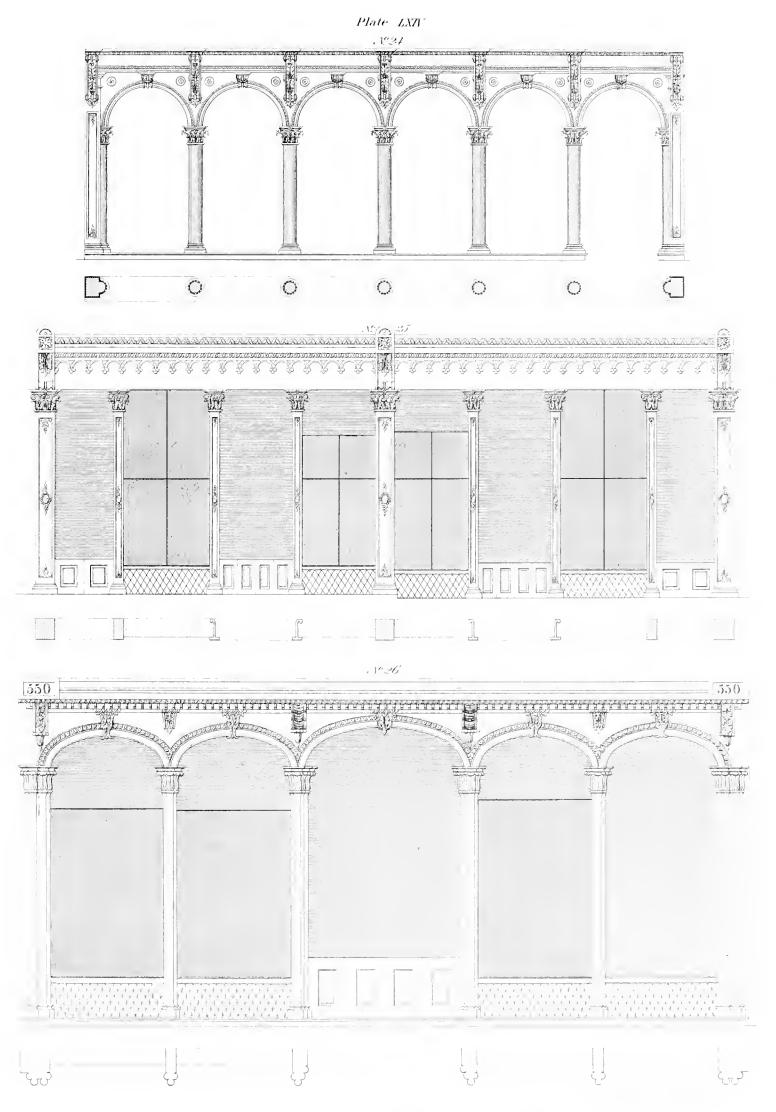
ARCHITECTURAL IRON WORKS, __ NEW-YORK





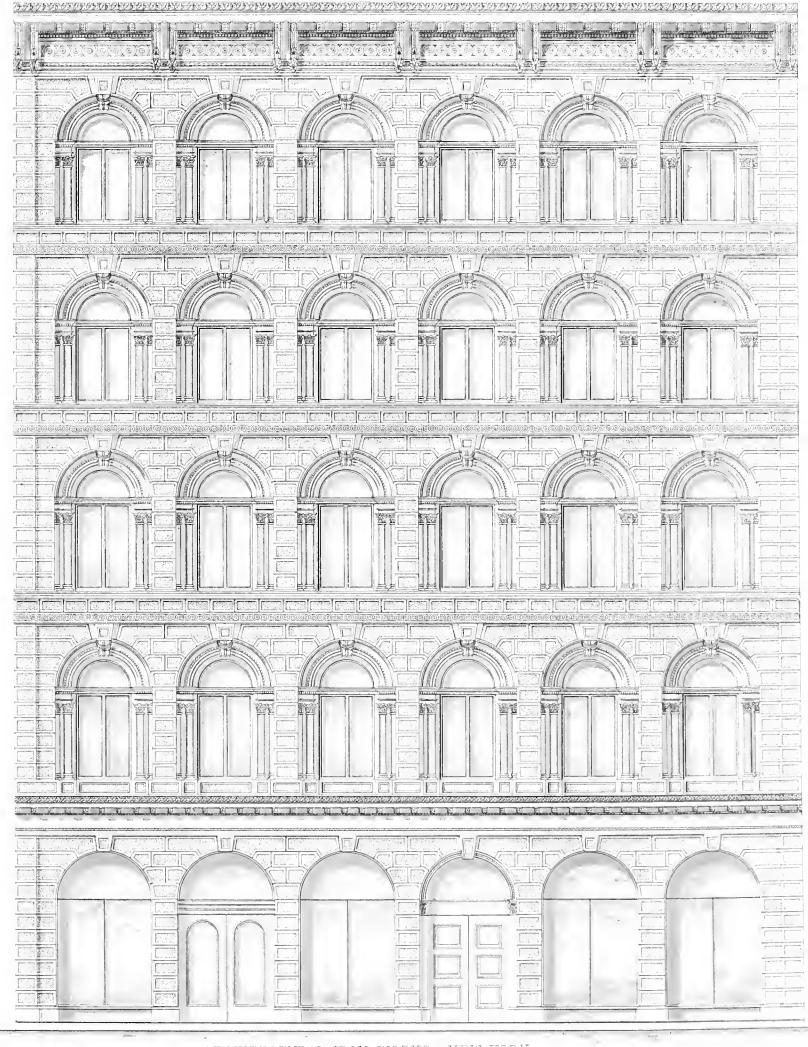
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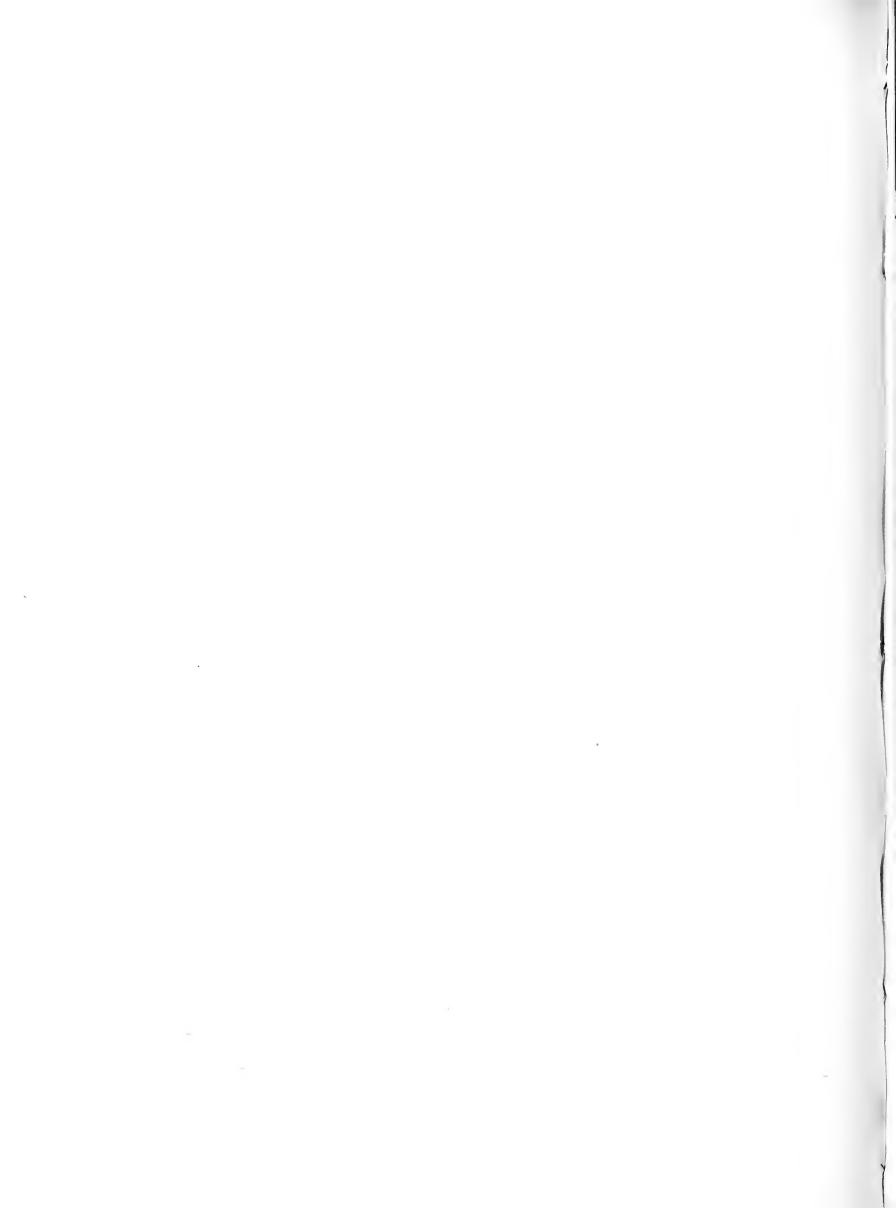


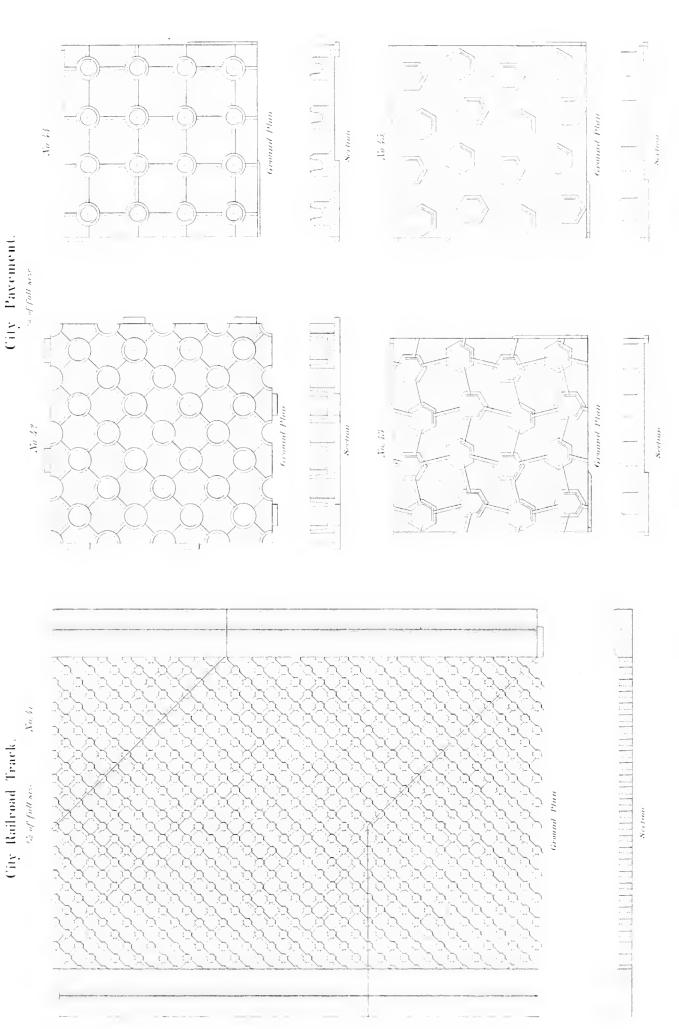
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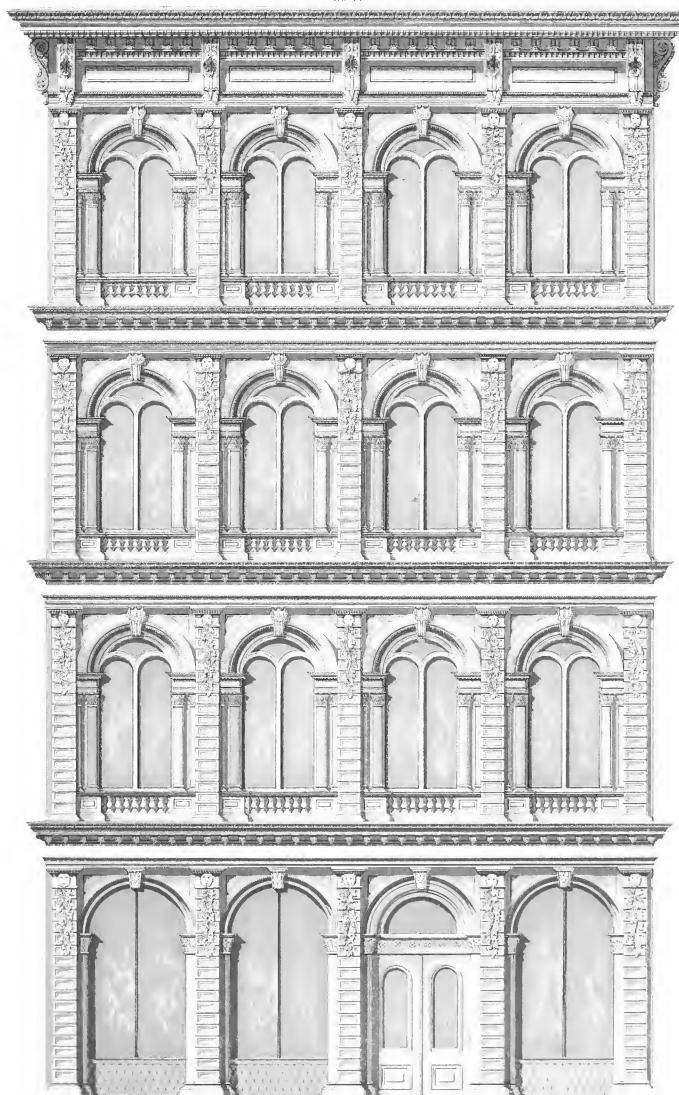


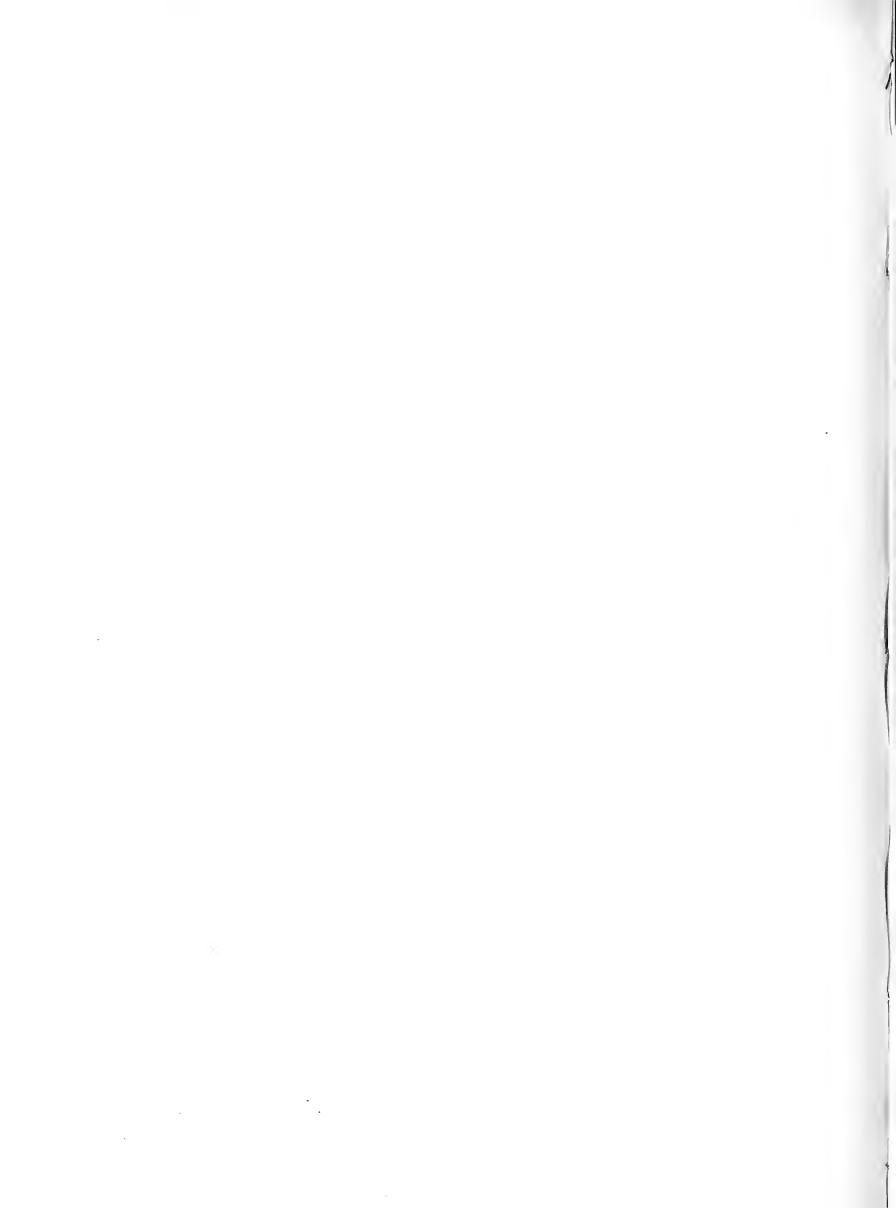
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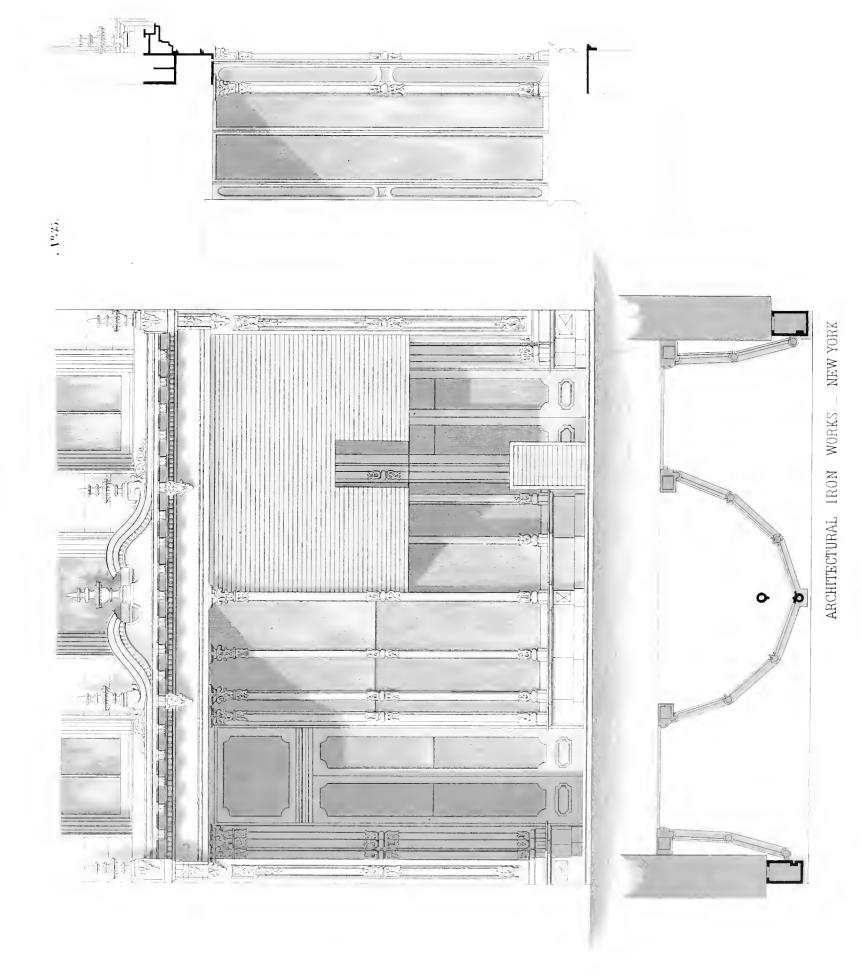
- Plate LATA

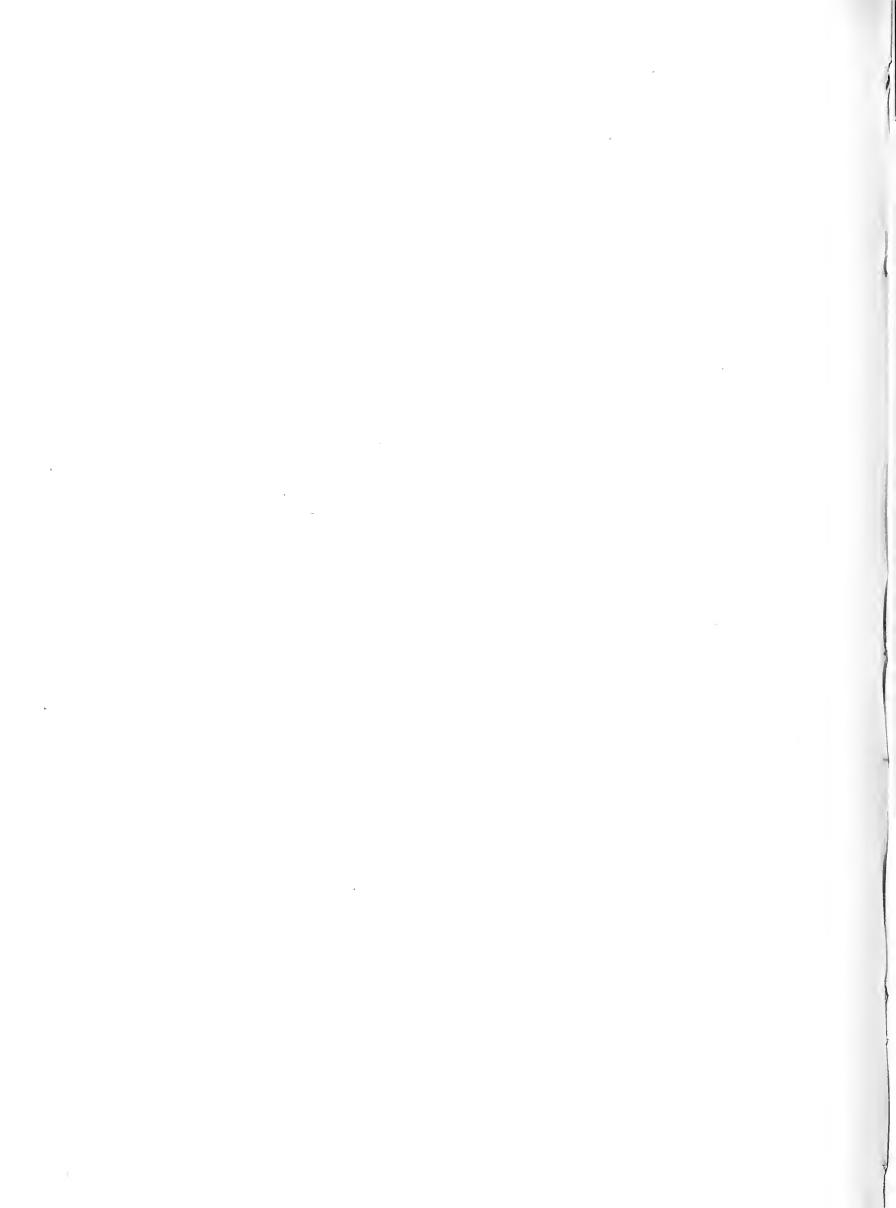
Elevation for Banking House & Office.

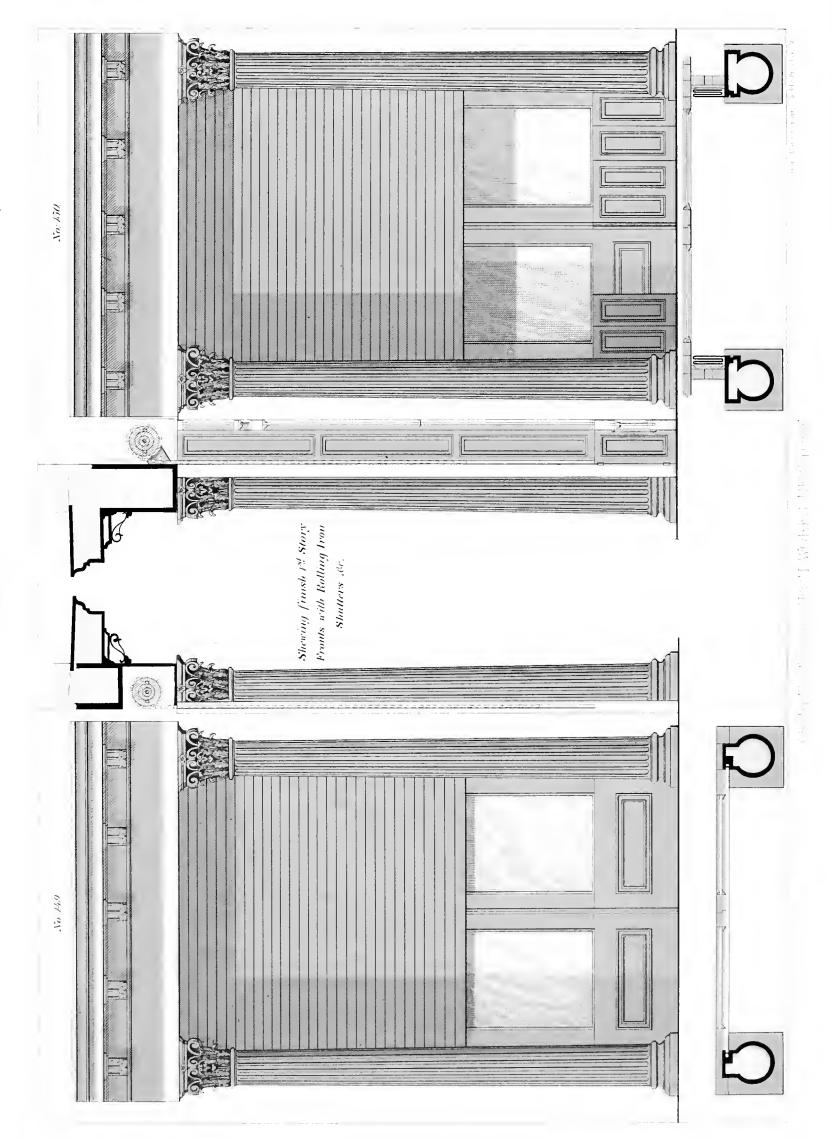
No 22











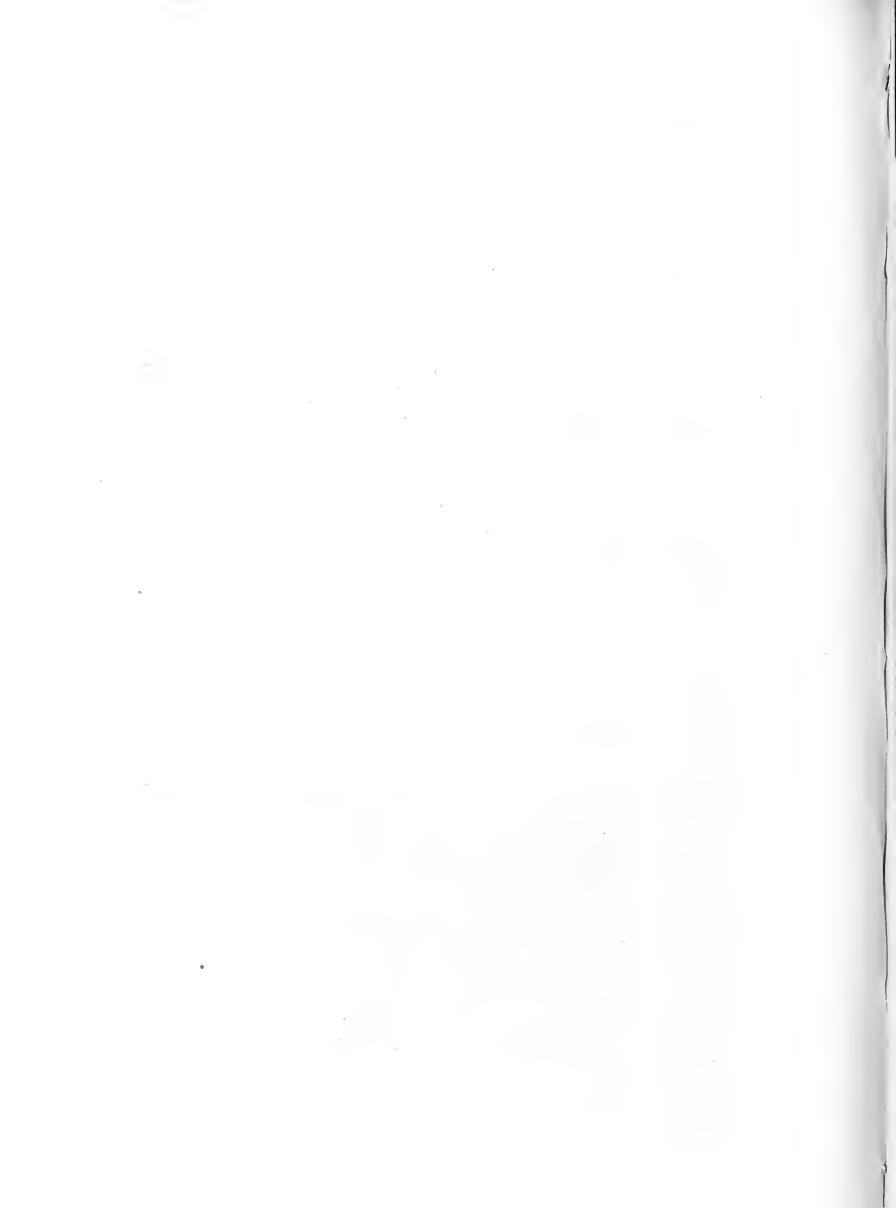
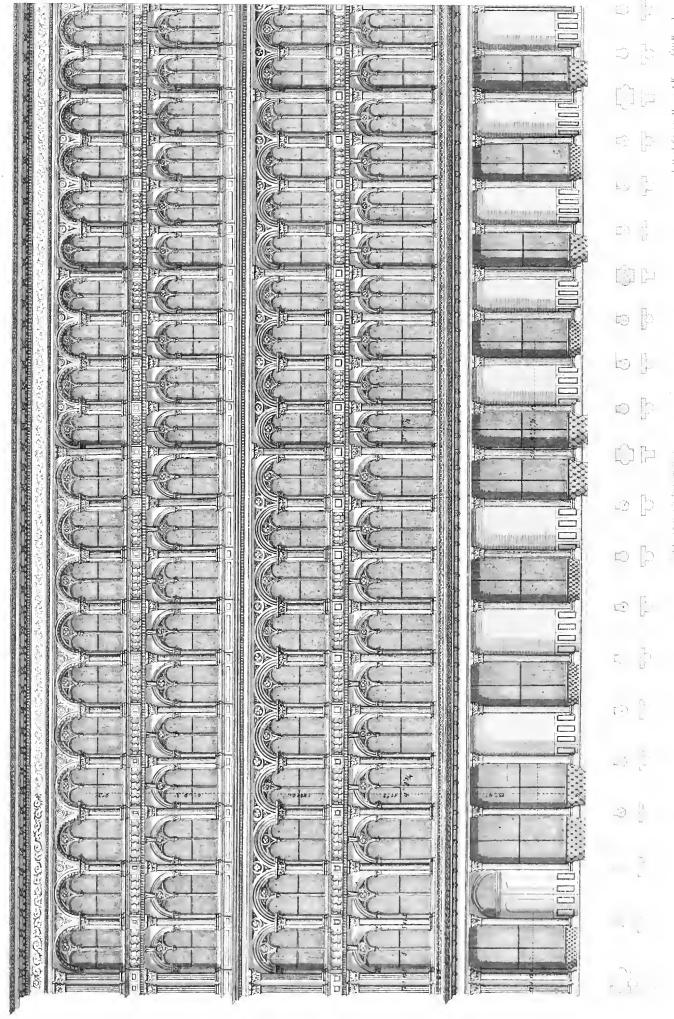
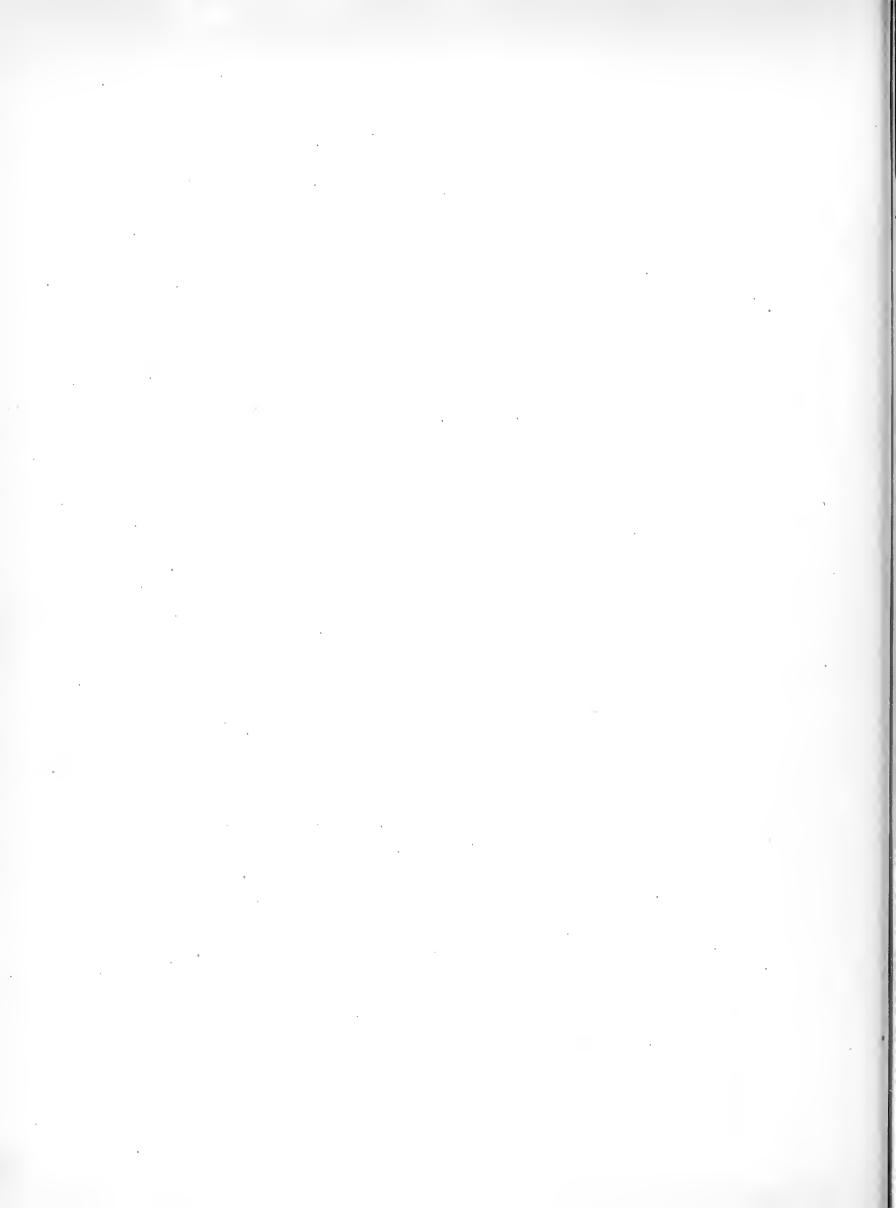


Photo XXX Front Elevation for Fred Tuttle and others—Chicago Mls.

No:28.



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Details: Rolling Iron Shutters.

Plate LXX

Section of Shutter, 4 full size.

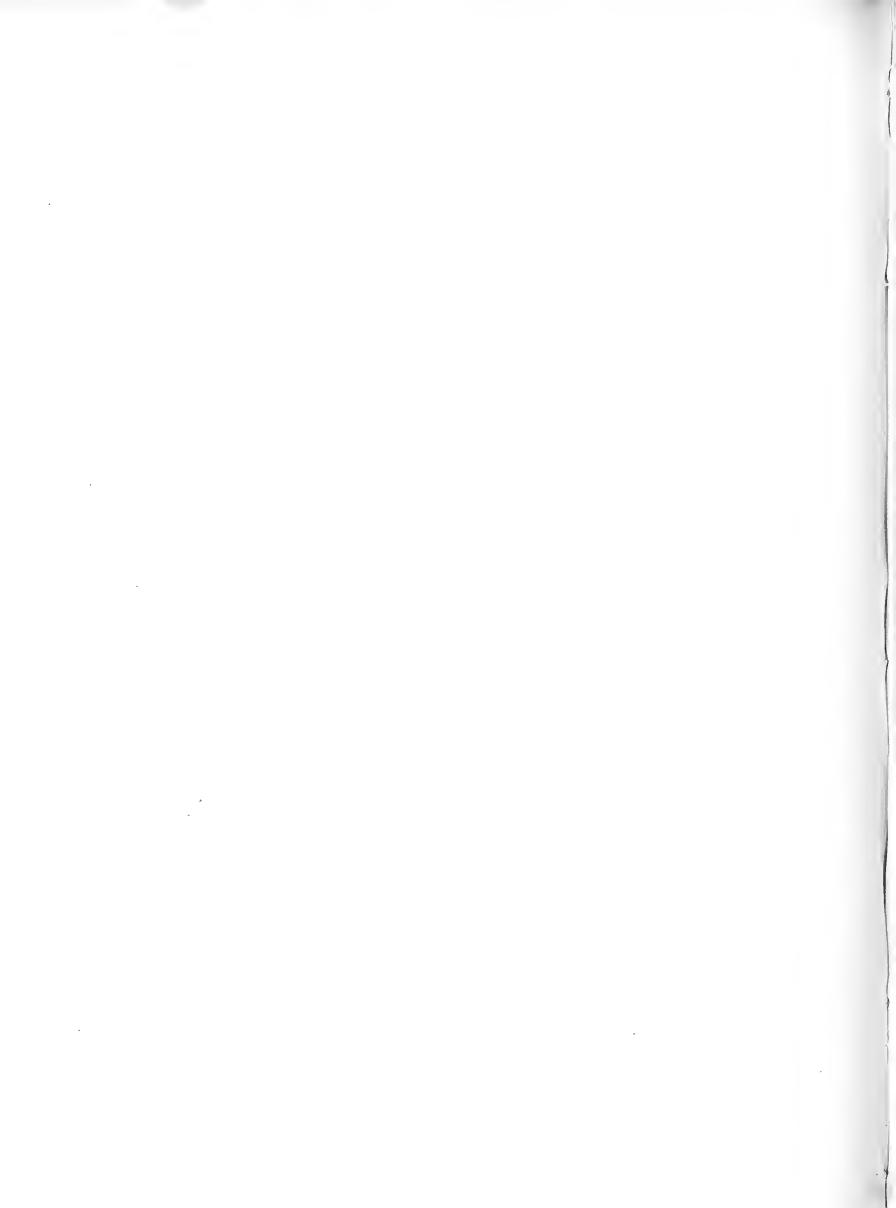
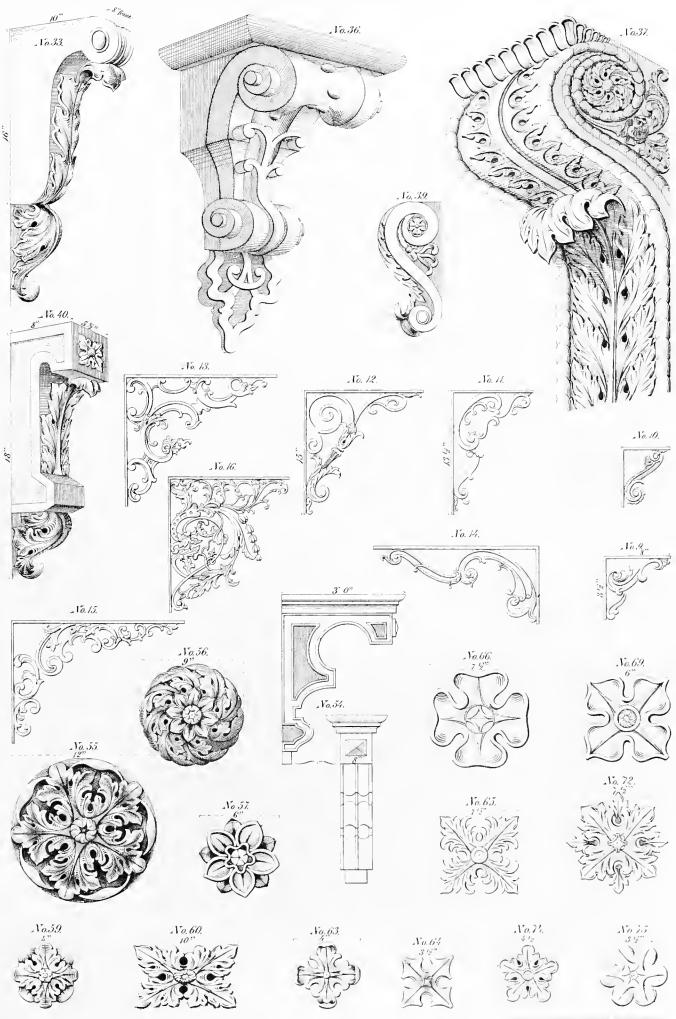


Plate LAMI

Consoles Brackets & Rosett's.



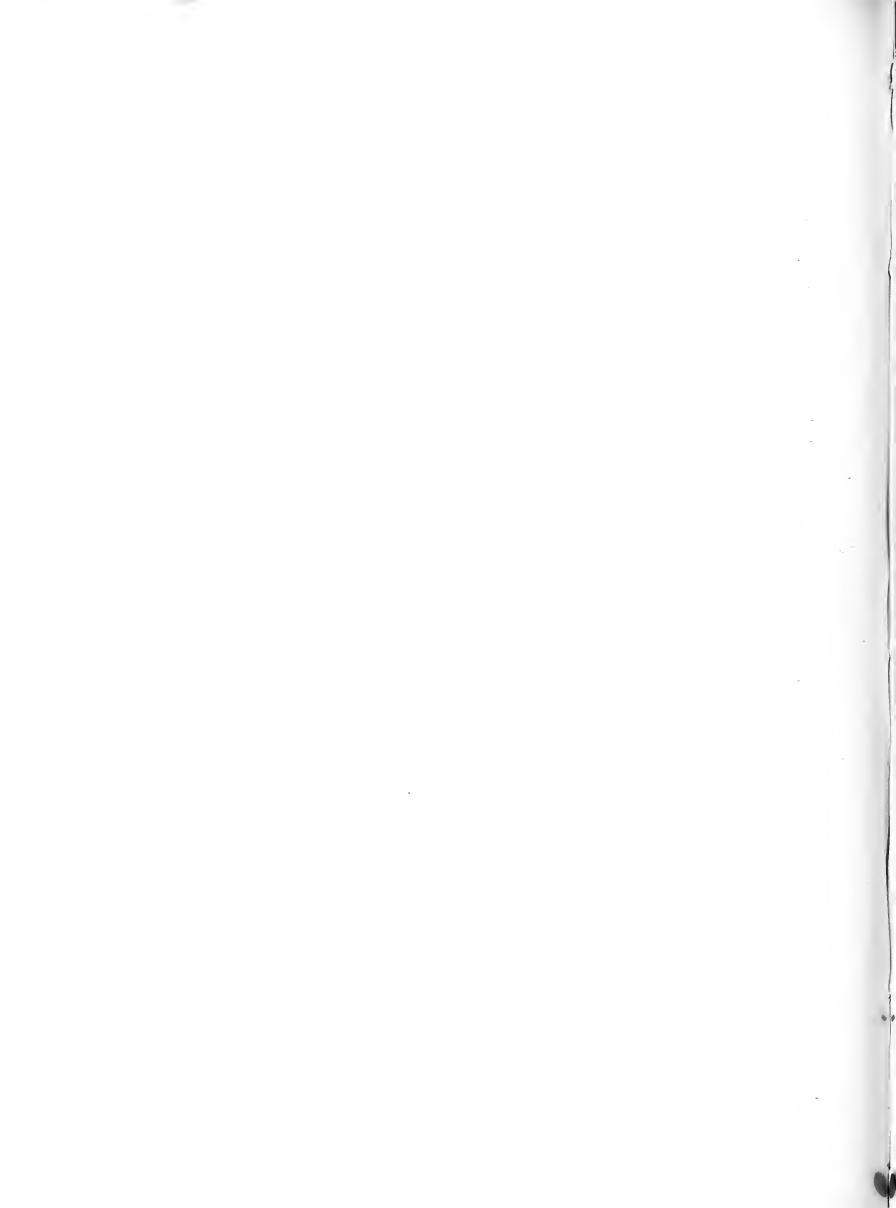
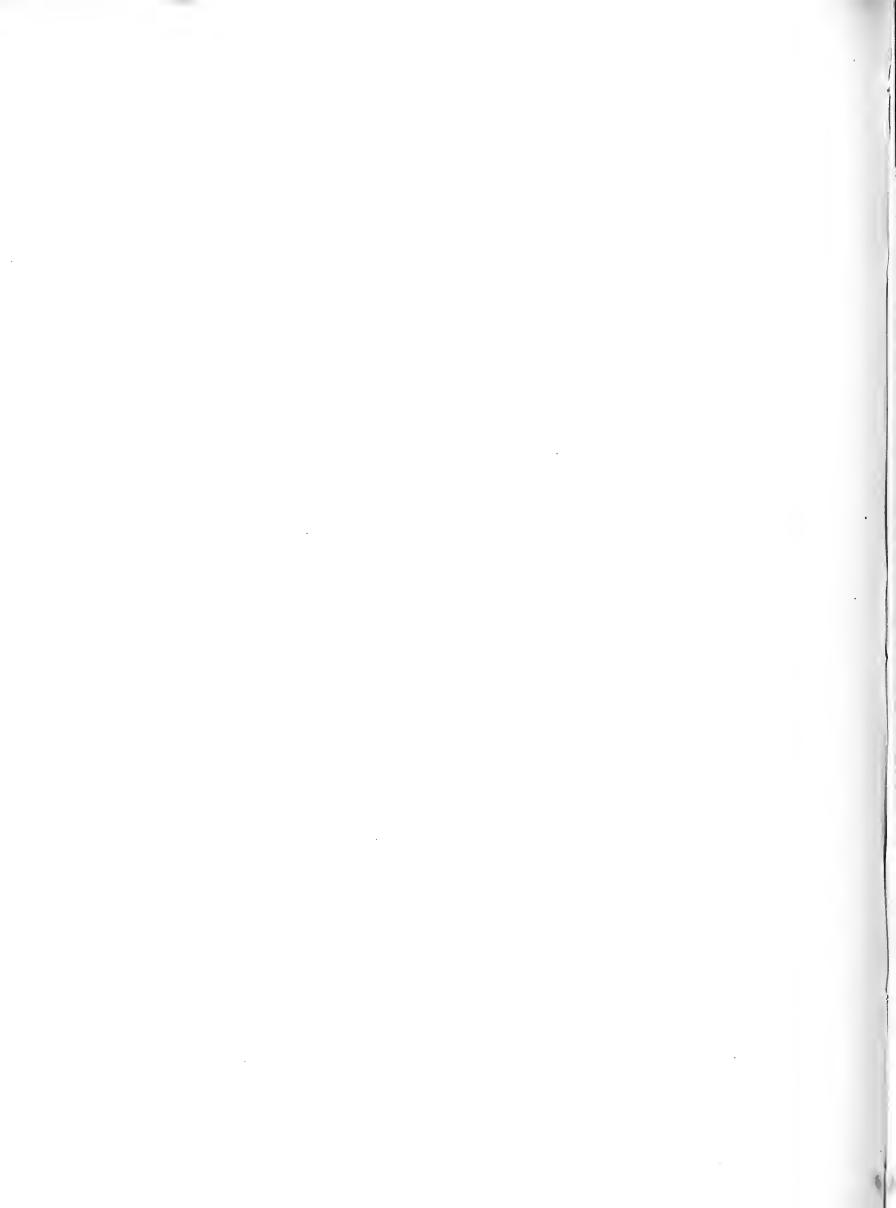
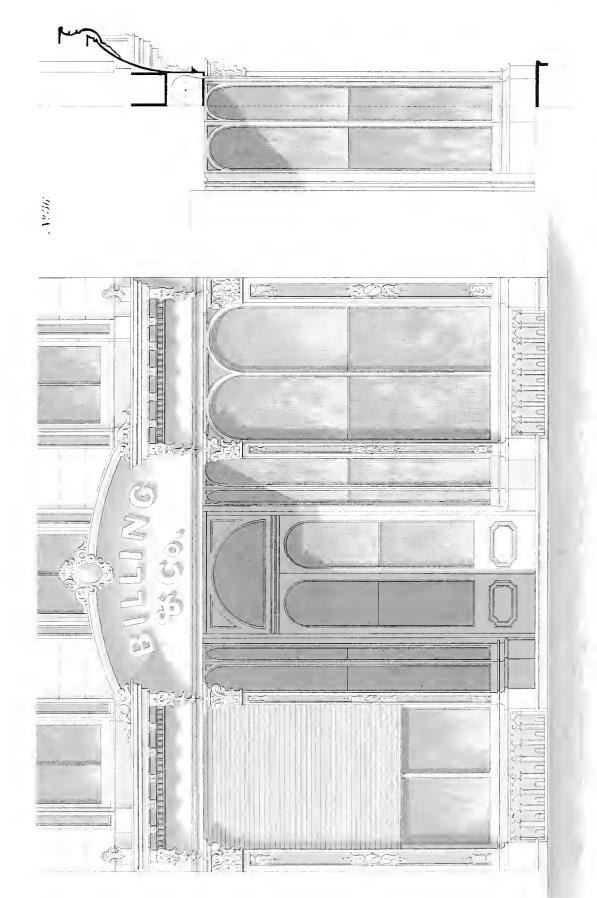
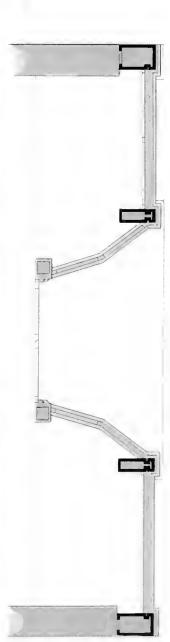


Plate LXXIII

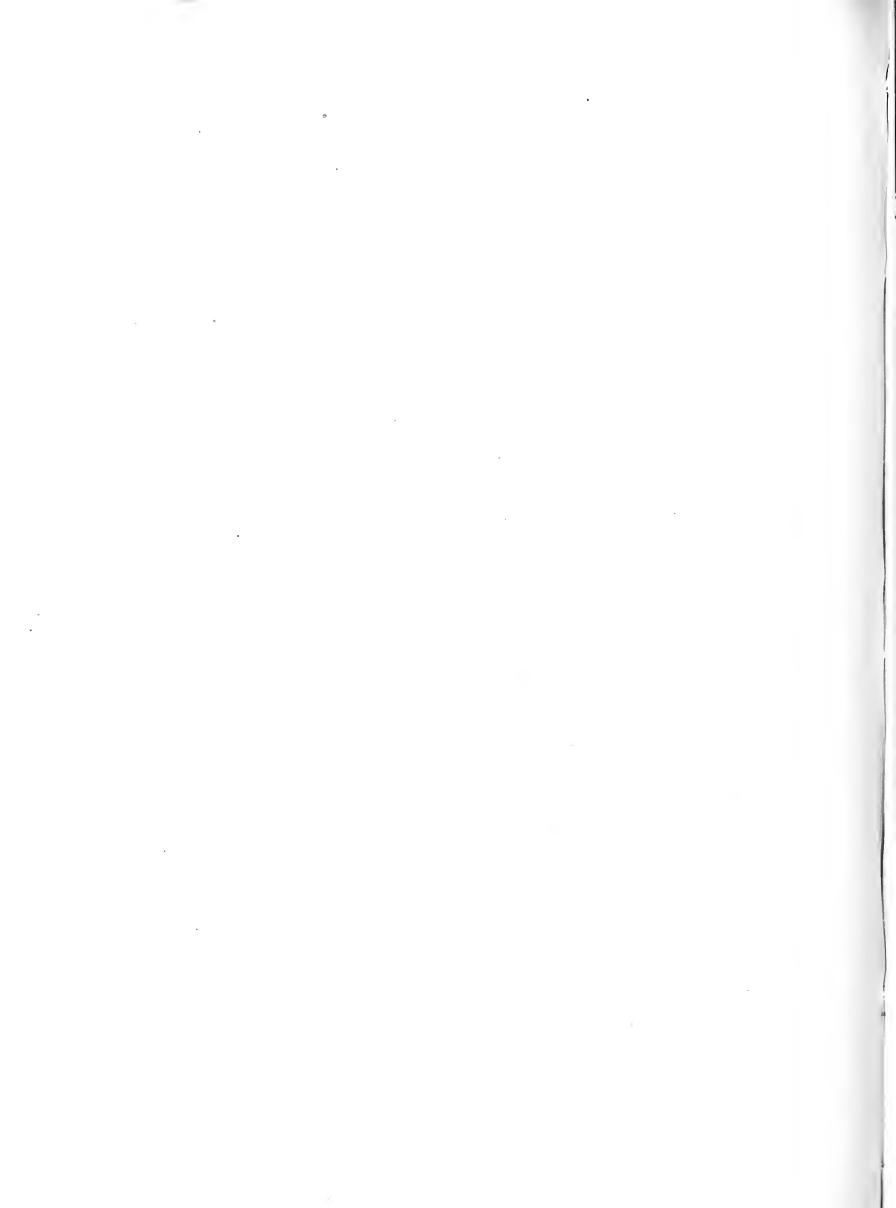
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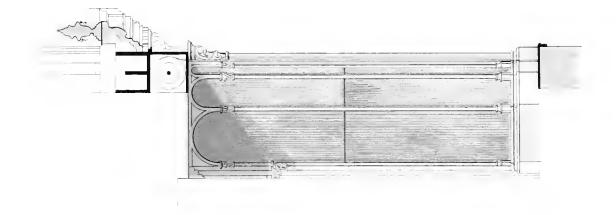


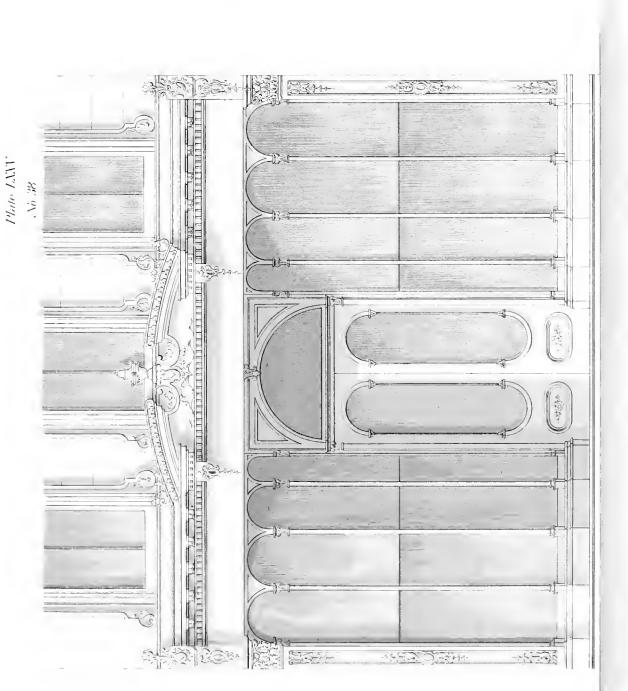




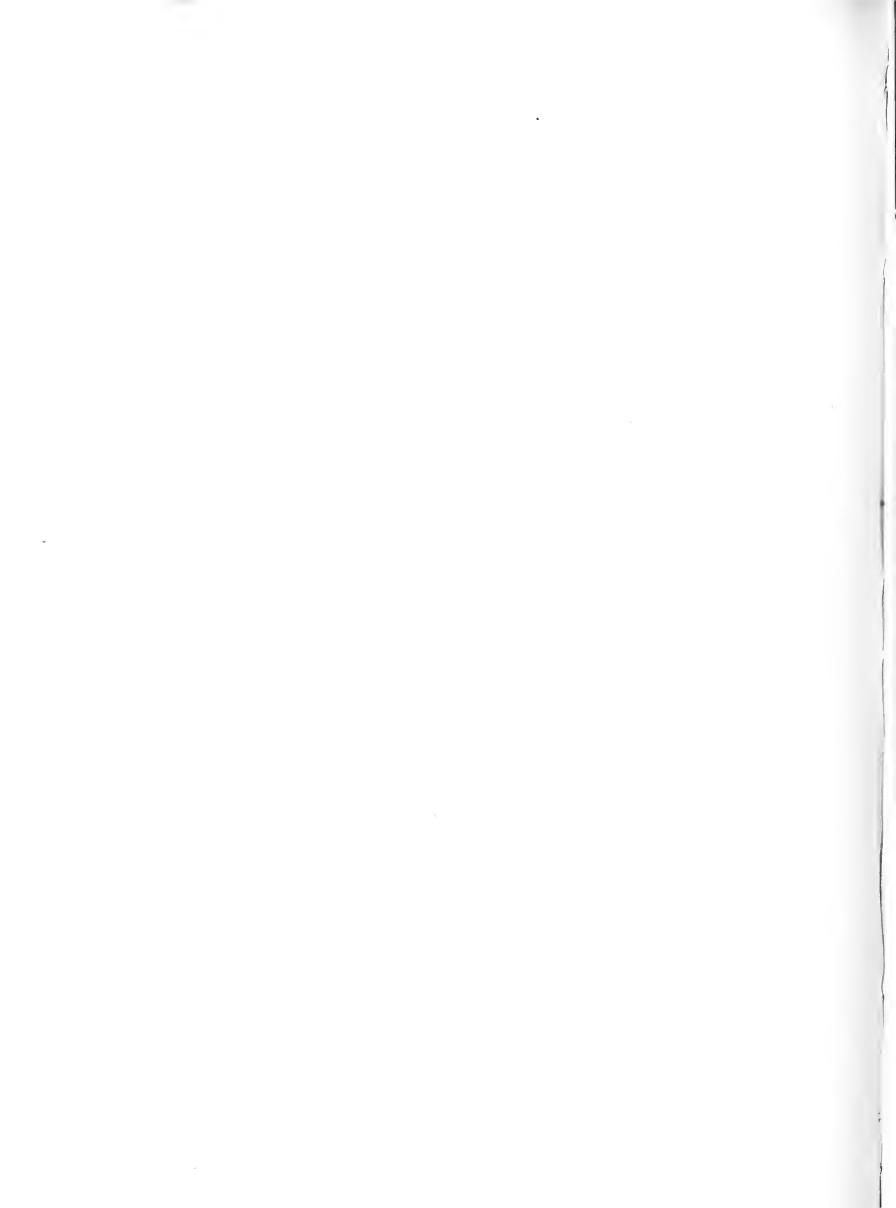
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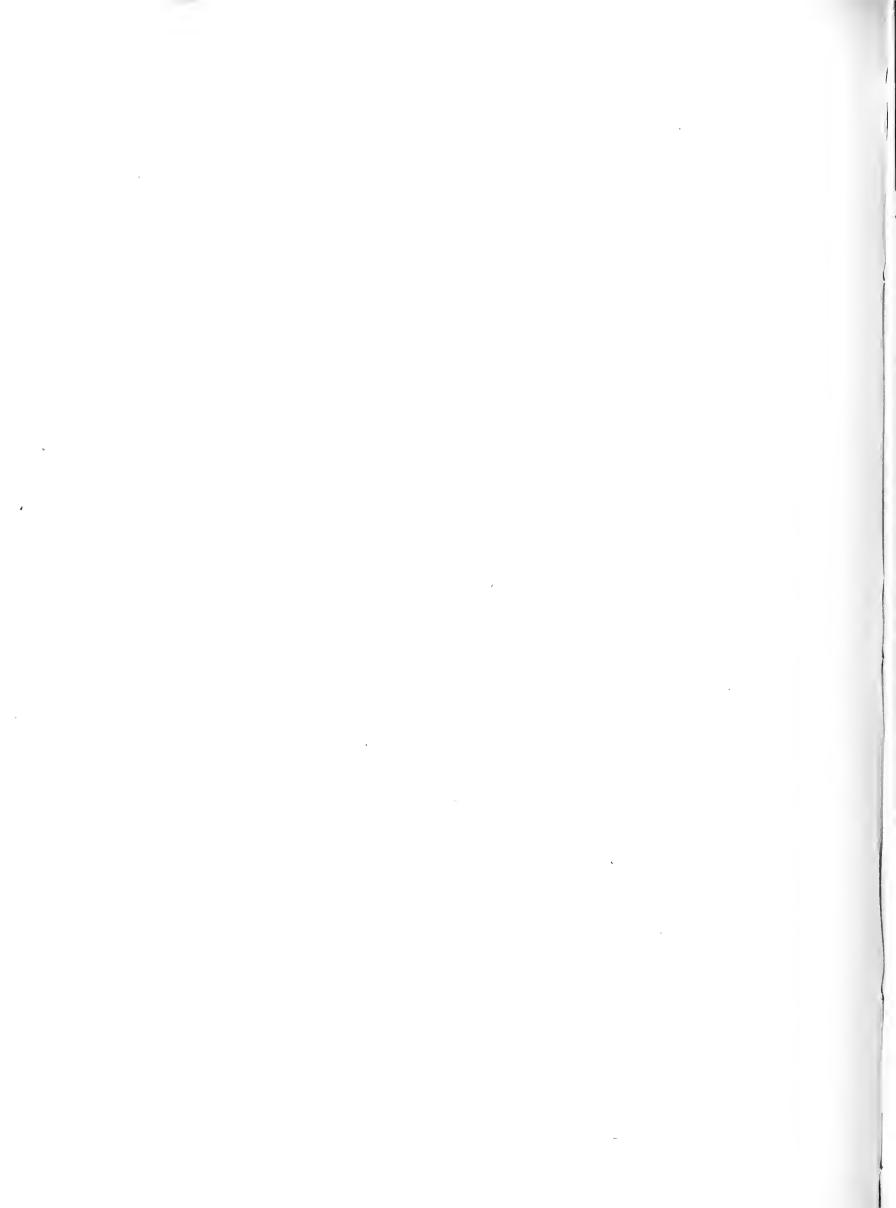


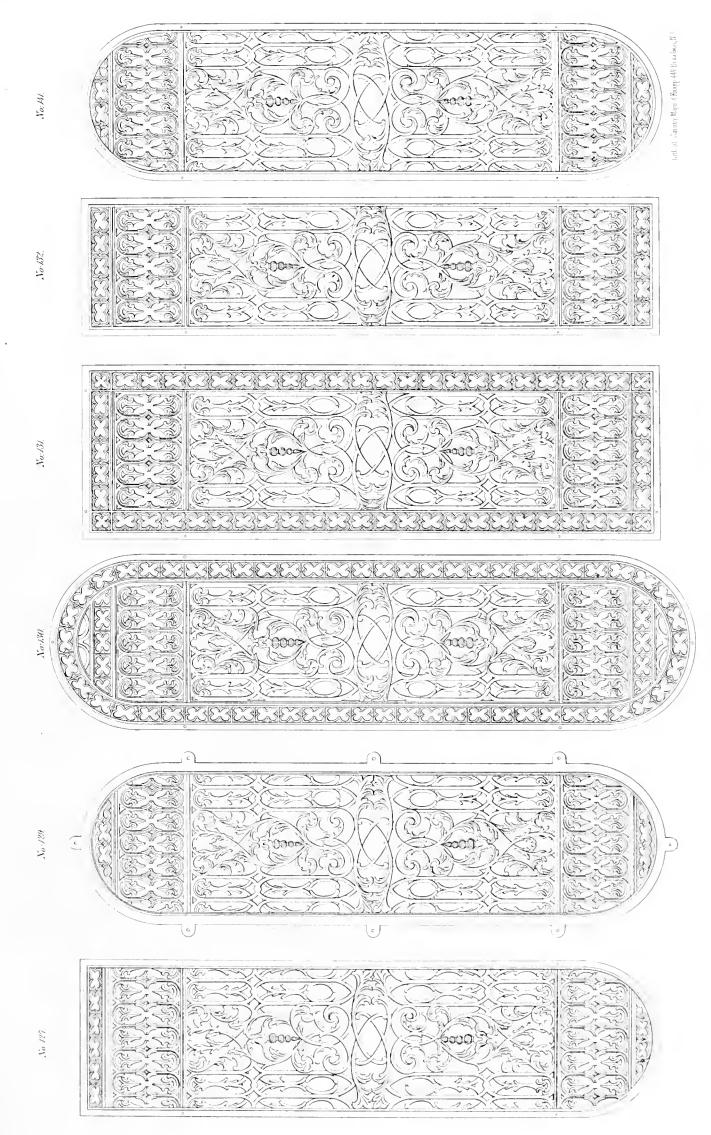




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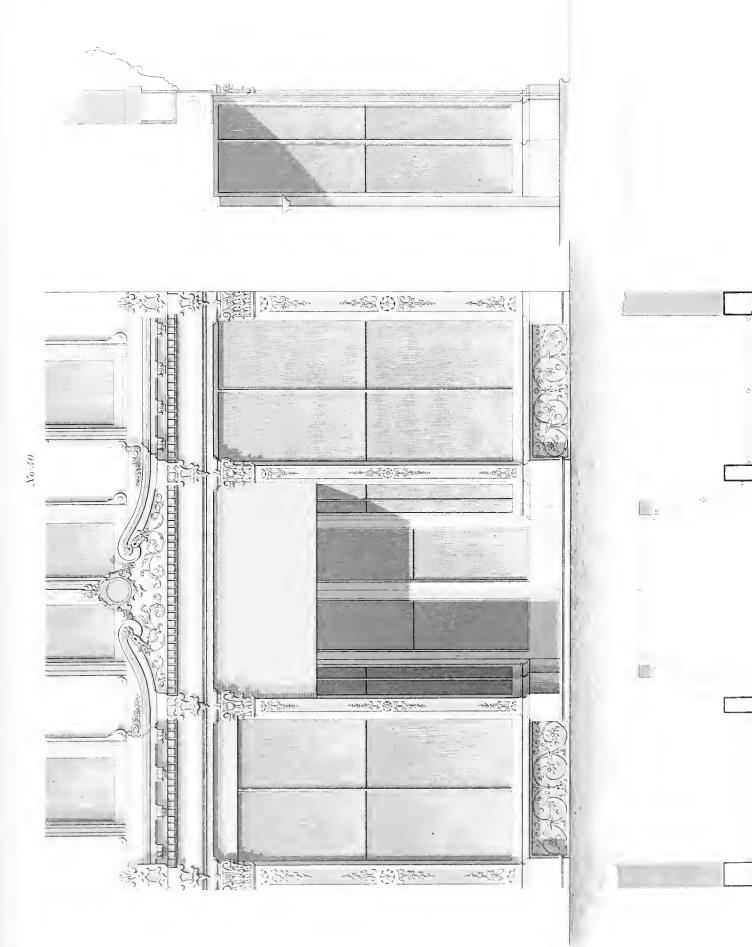






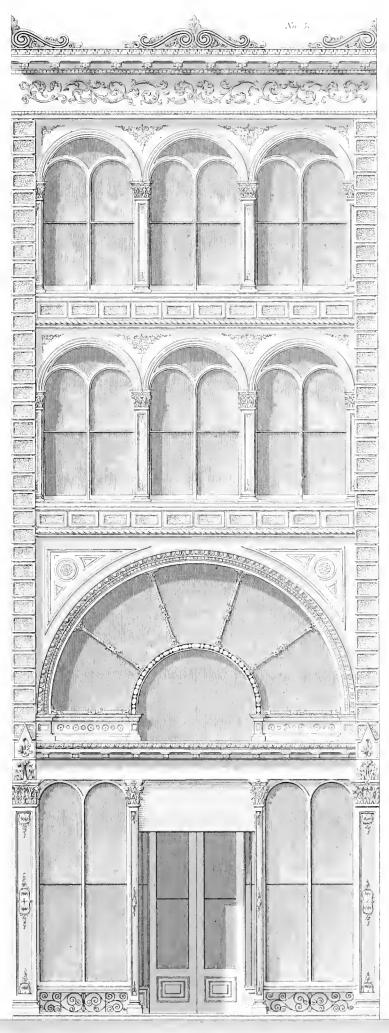
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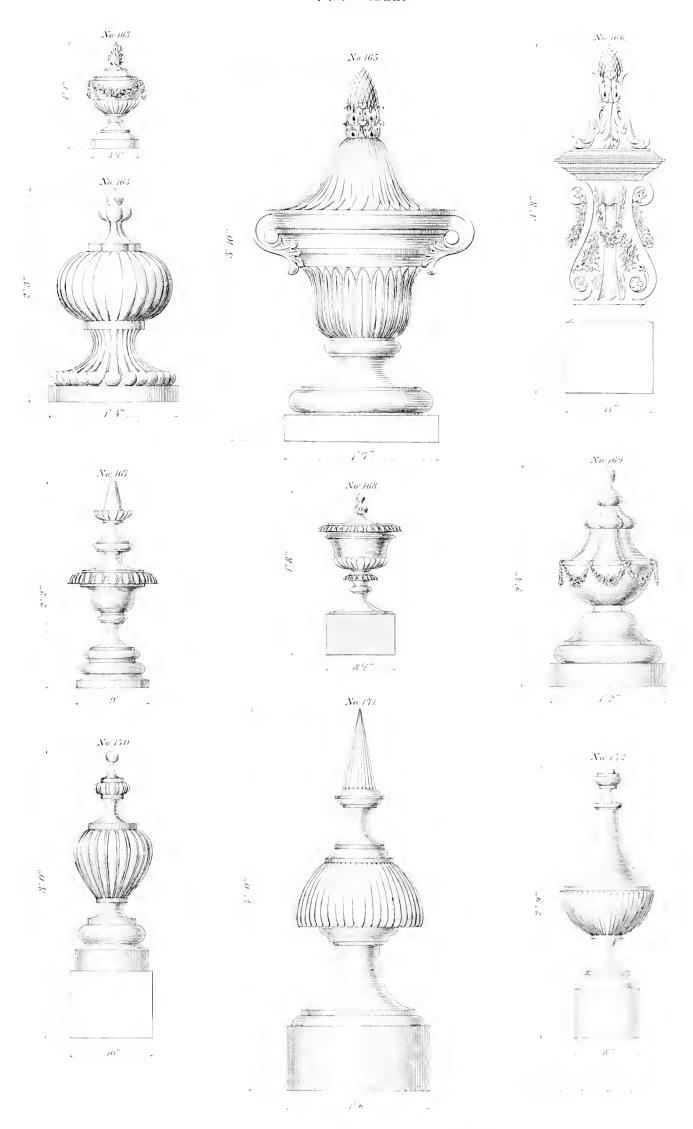


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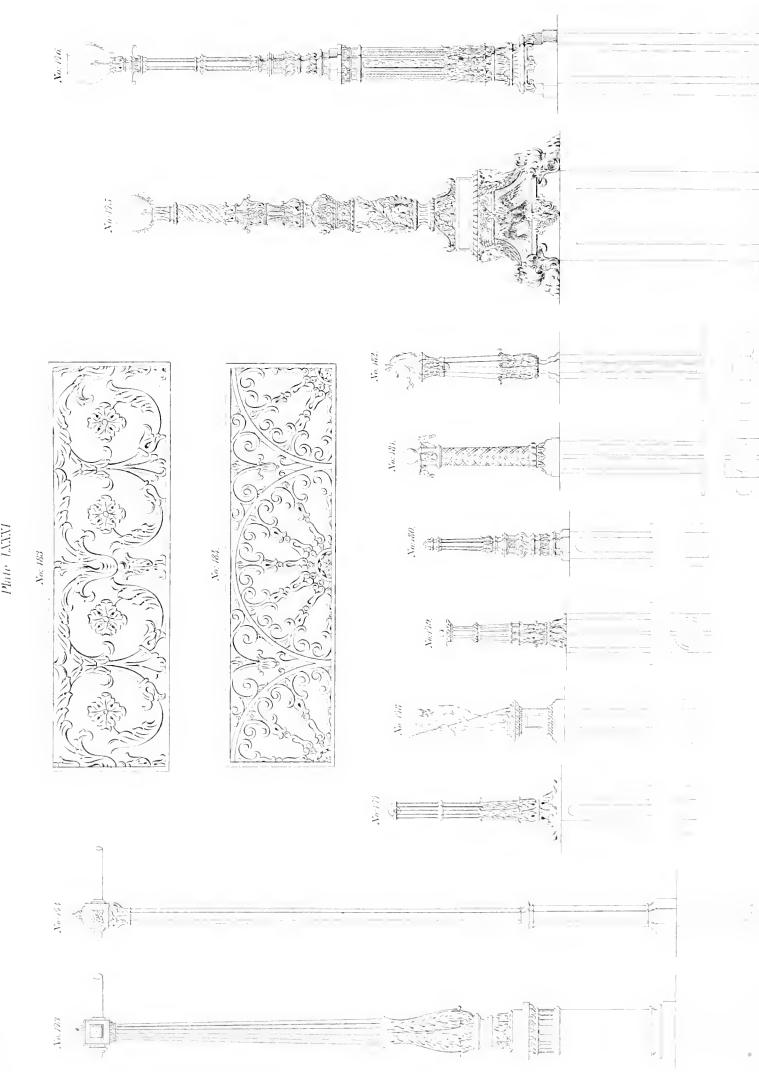


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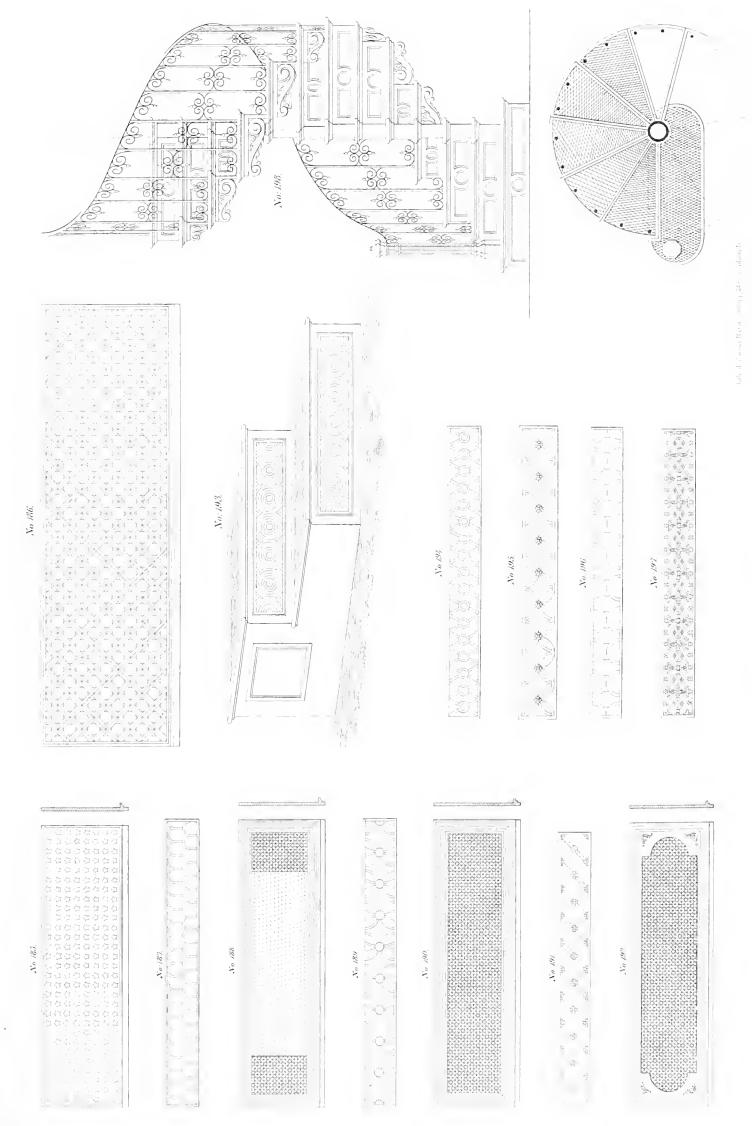


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Plate LXXXI



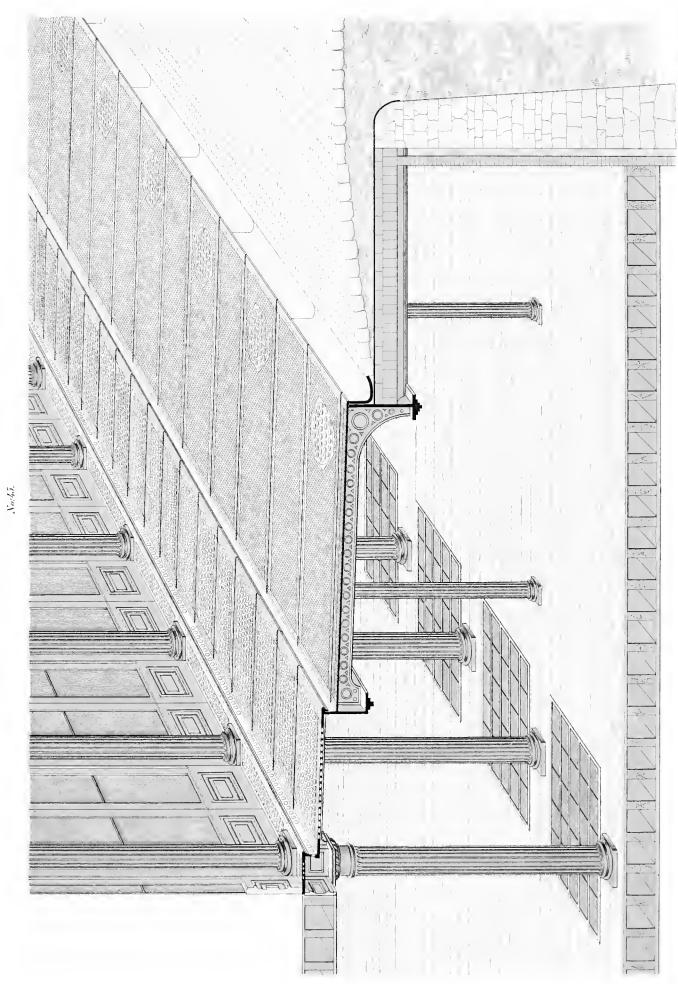




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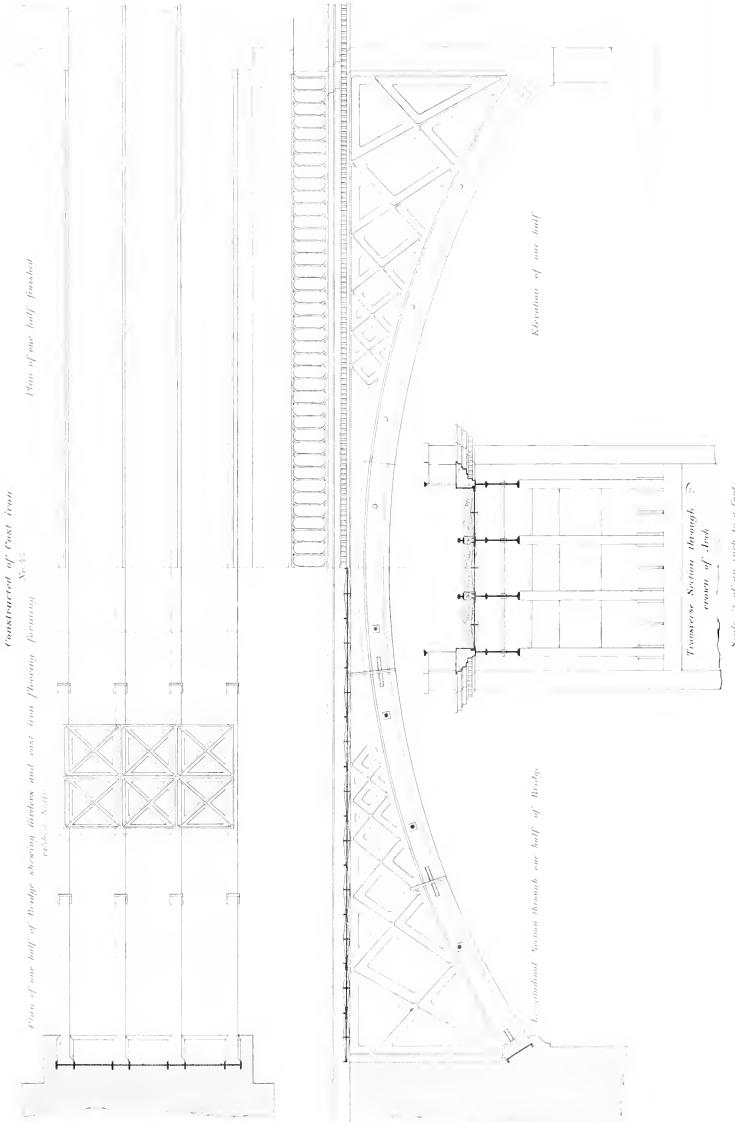
Elevation & Section of Sidewalk &c, Shewing Vault under Street.



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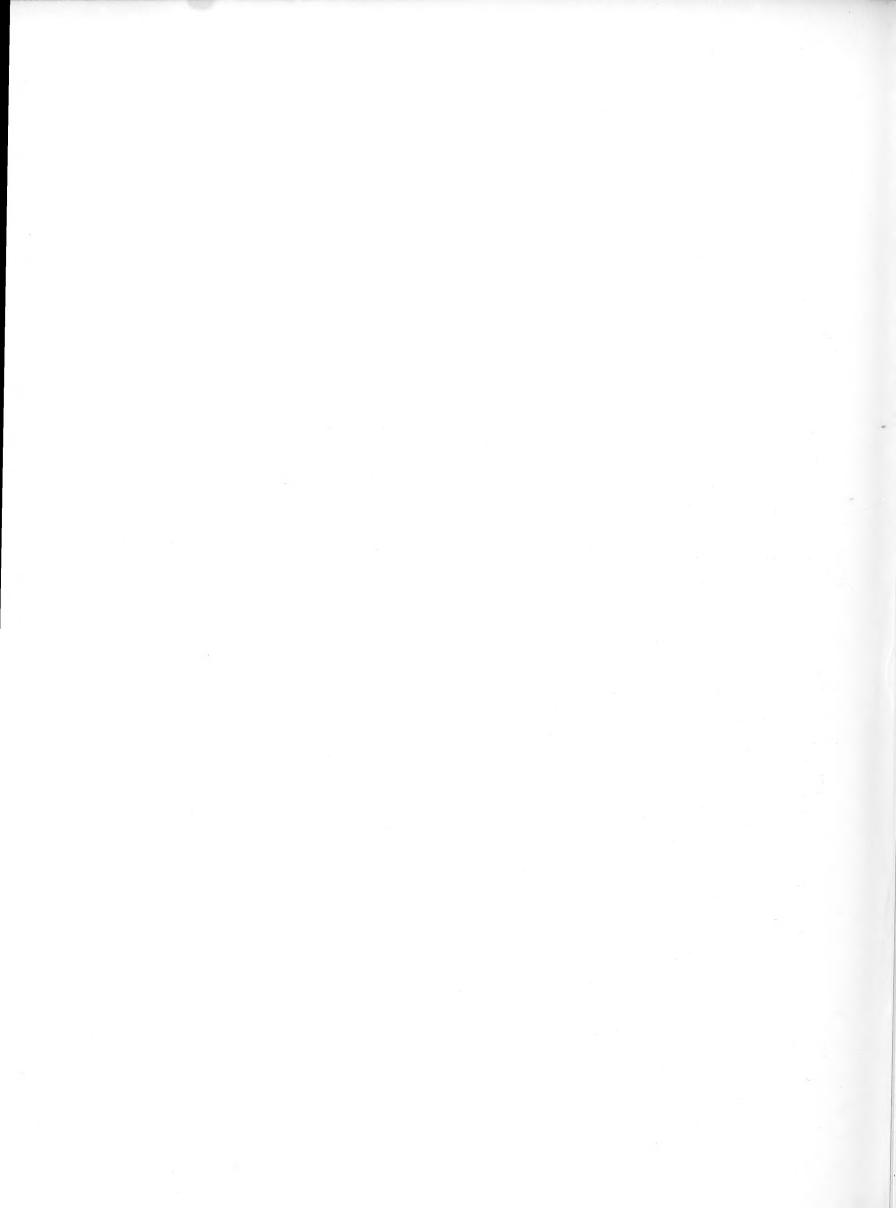
80 feet Span.

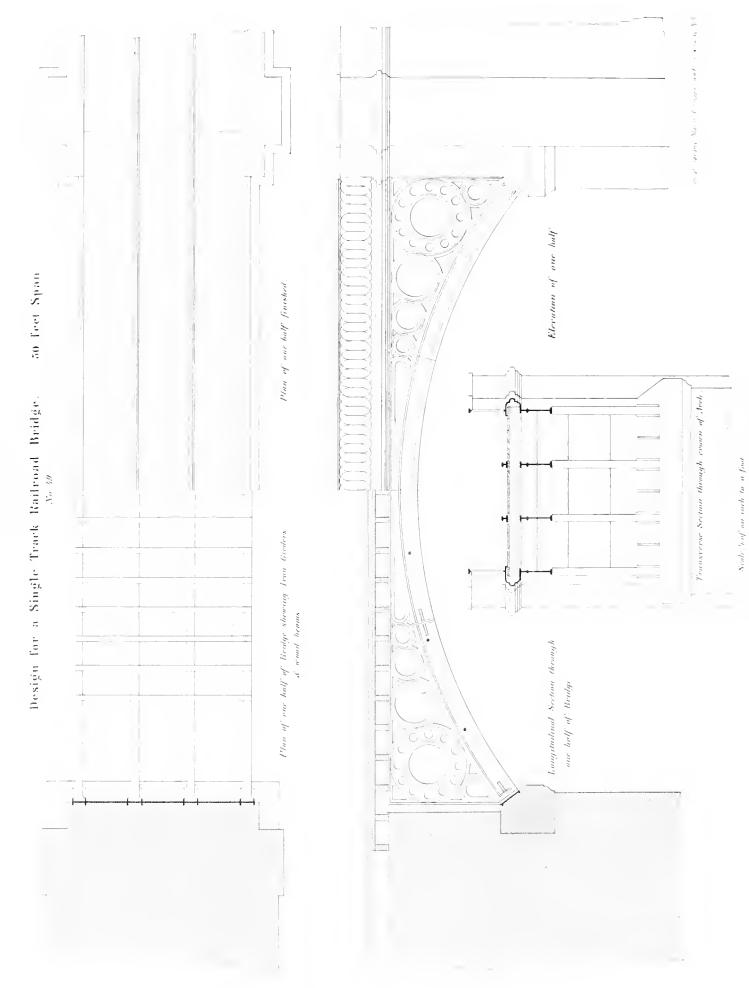
Design for a Single track Railroad Bridge.



Scale, 's of an inch to a foot

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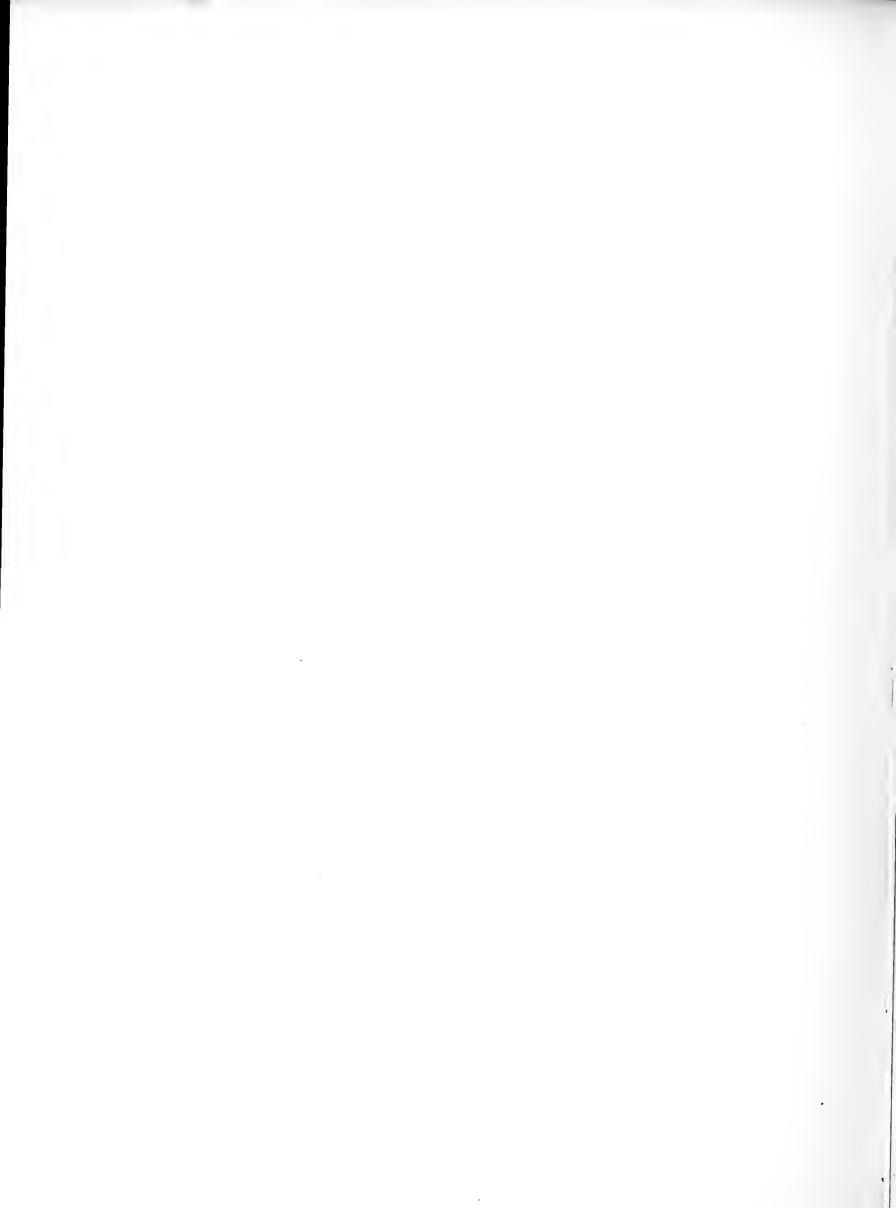
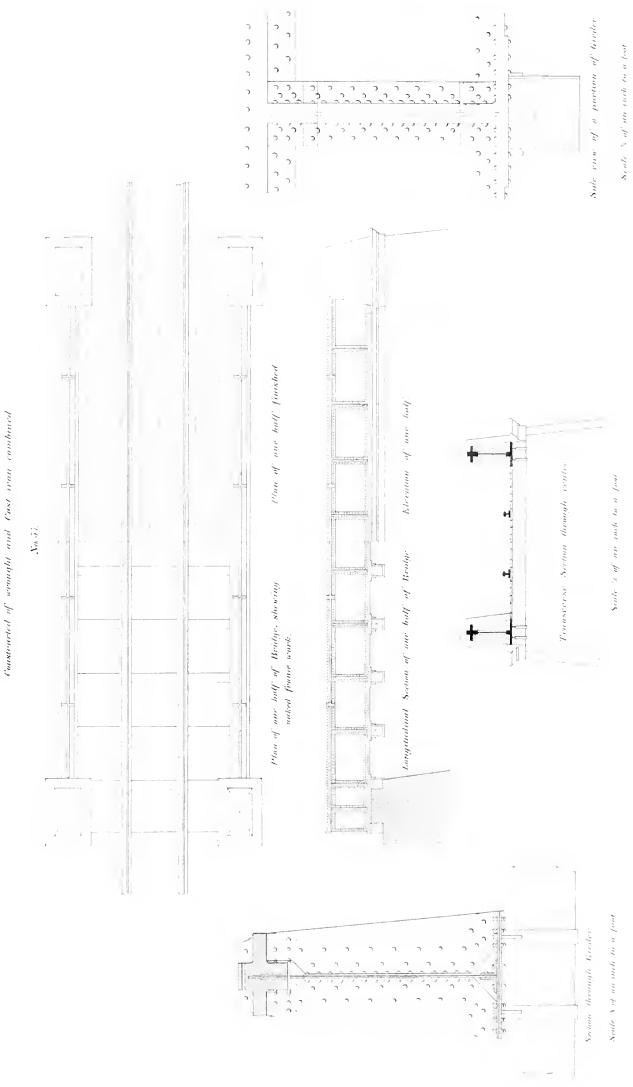
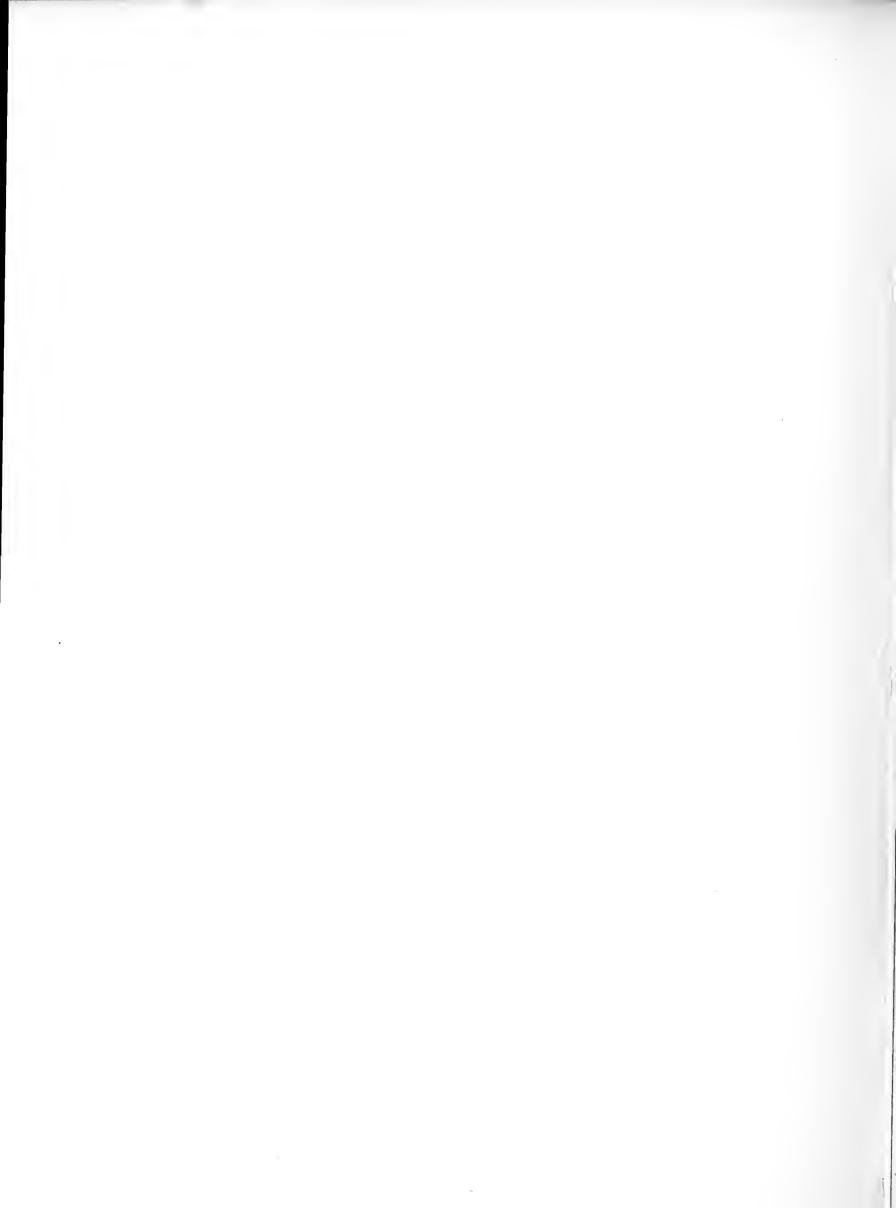


Plate LXXII

Design for a Single track Railroad Bridge, to feet between bearings.

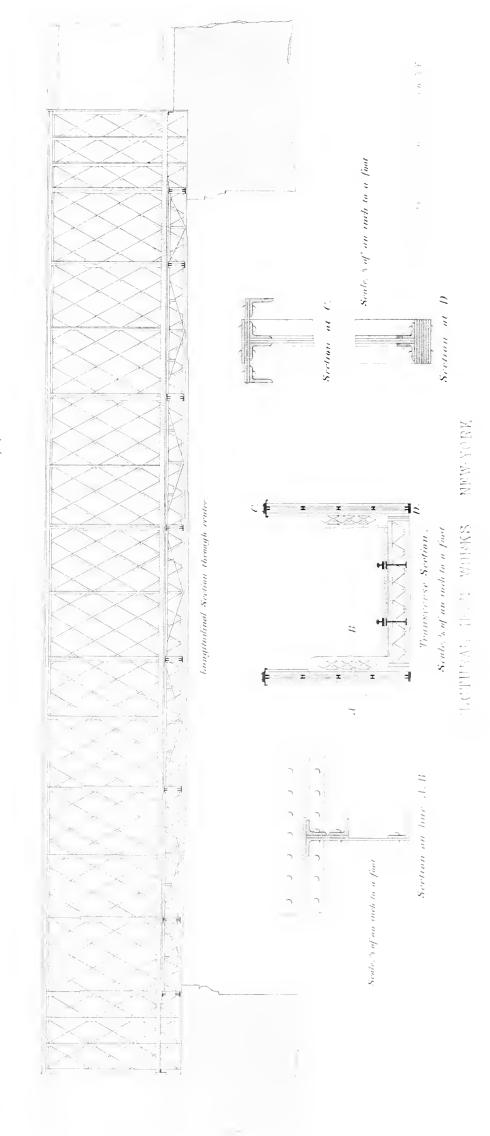


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Plan, one half showing the naked frame; the other half finished,



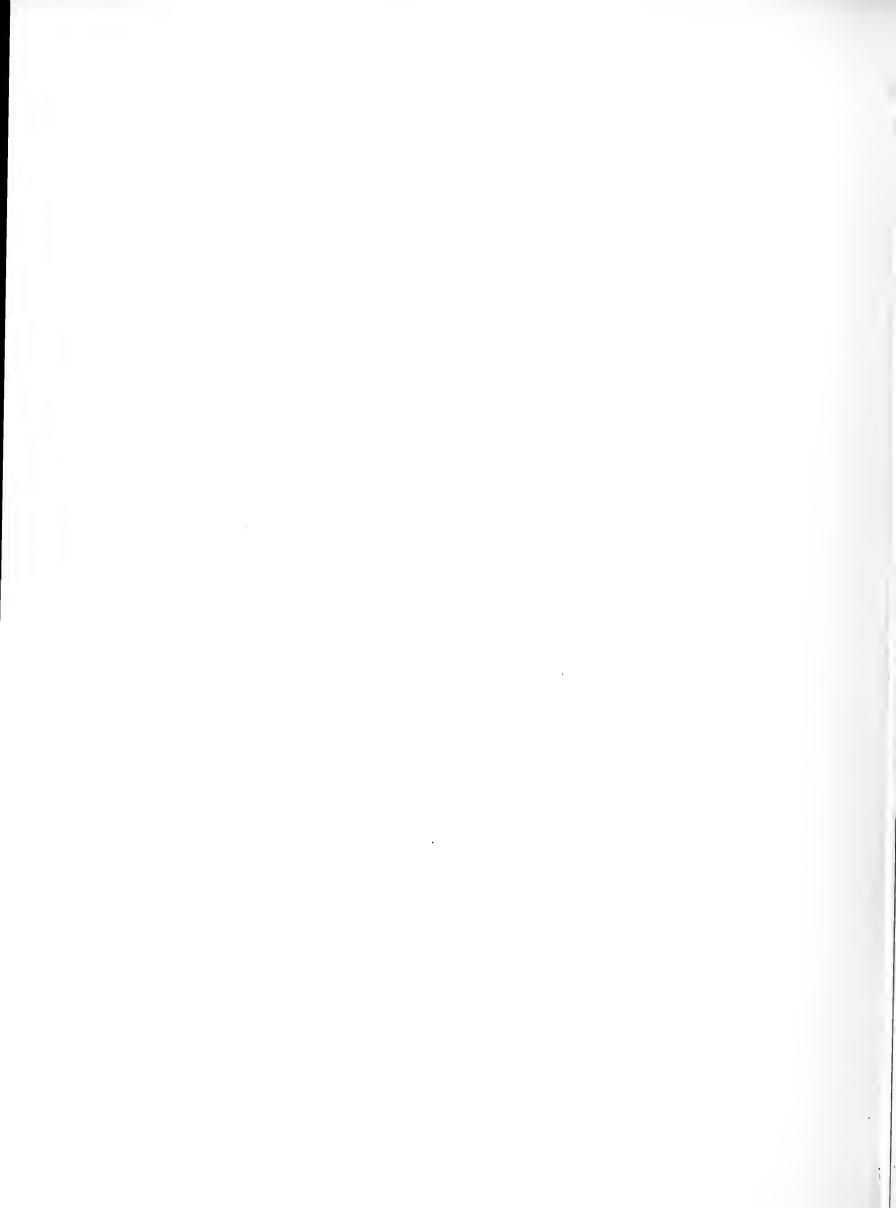
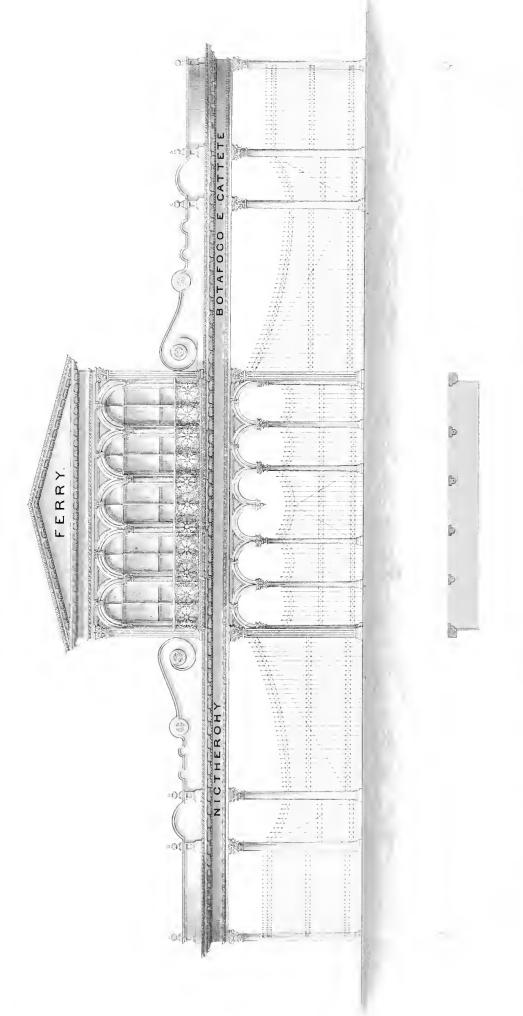


Plate ZXXVIII Ferry House, Buill for Df Thomas Rainey, Rio Janeuro Brazil No 24

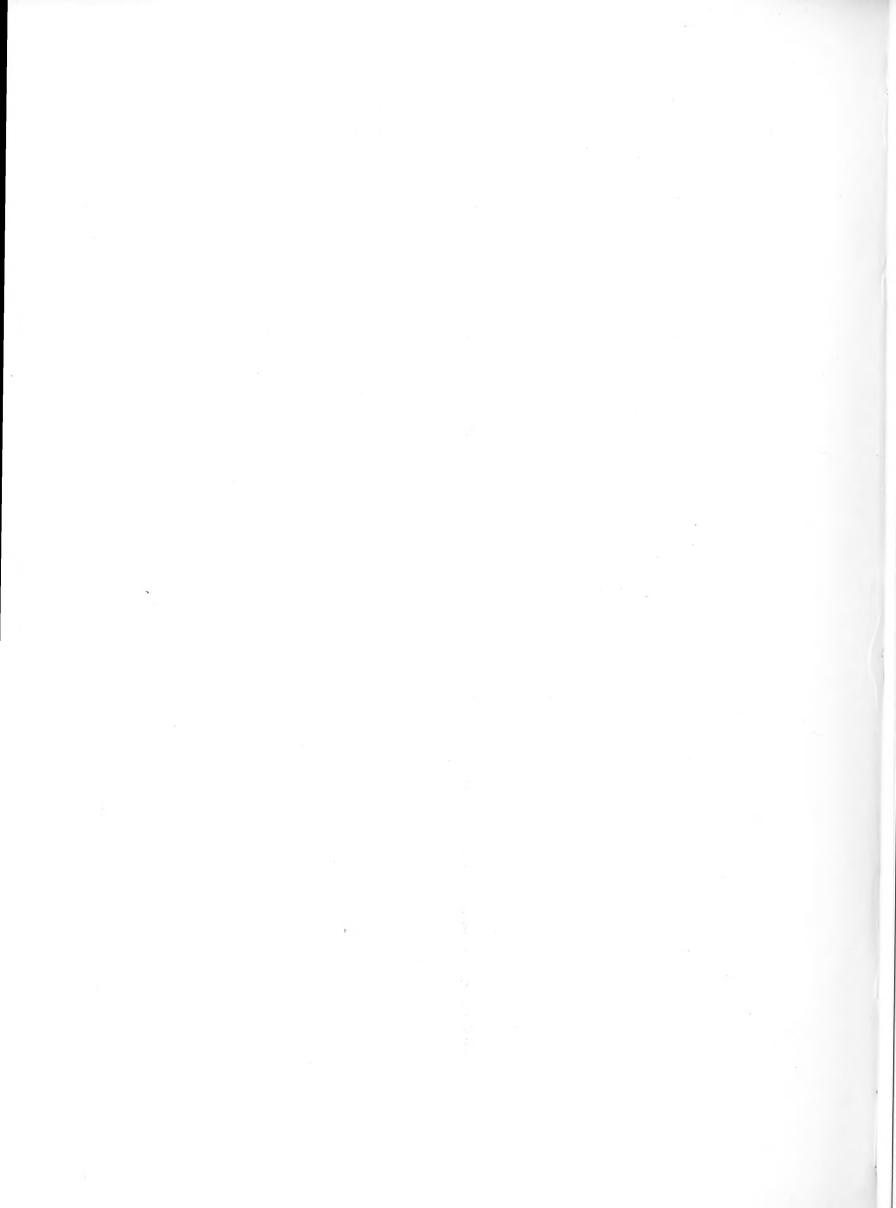


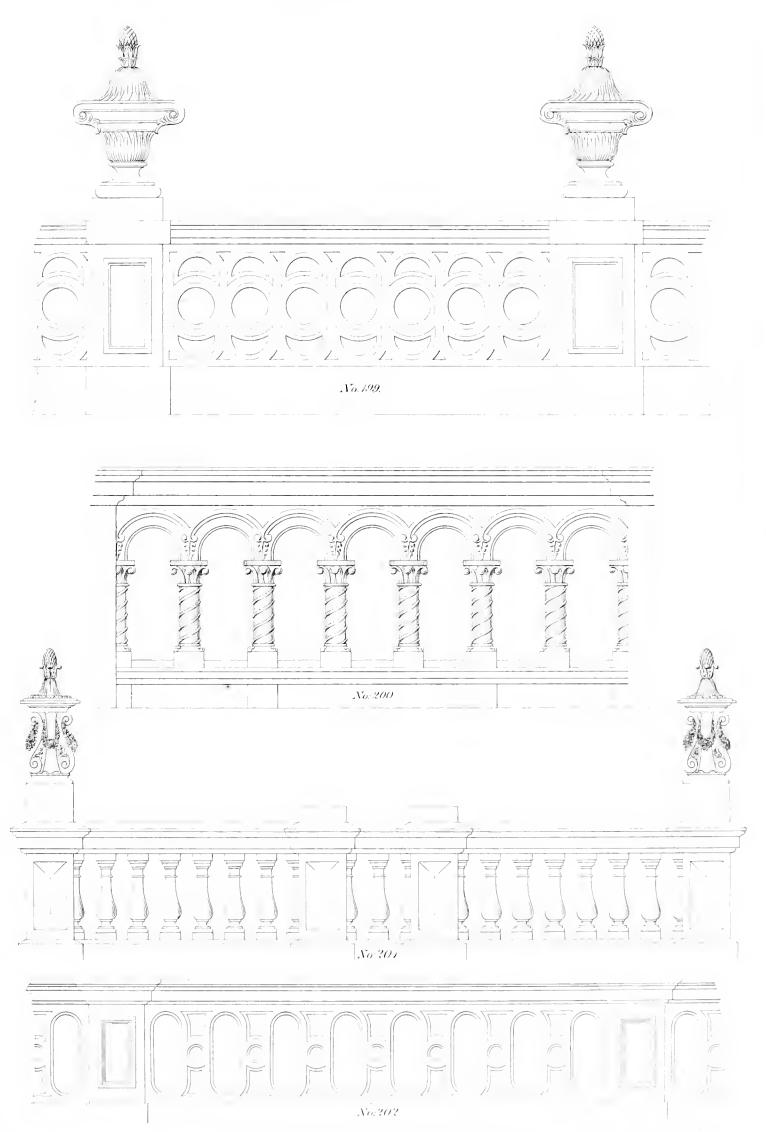
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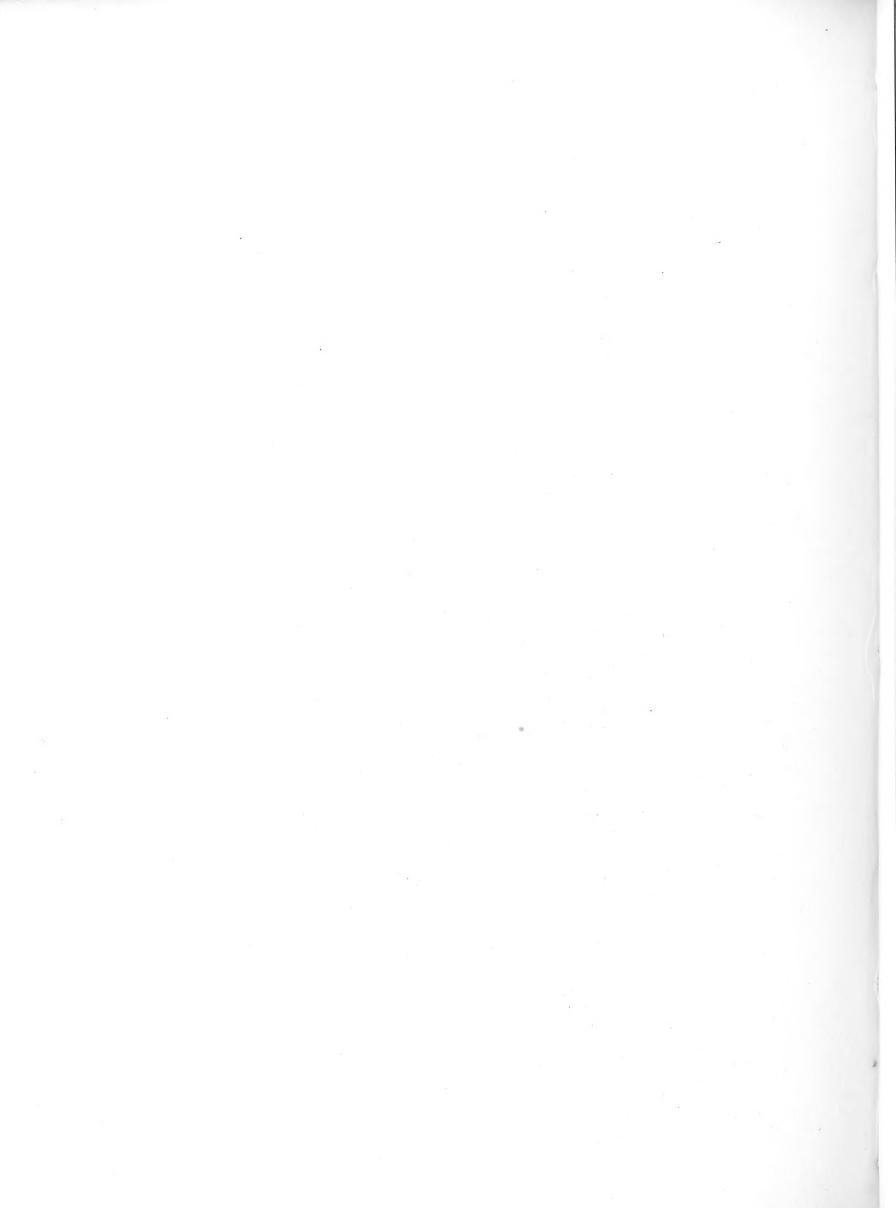
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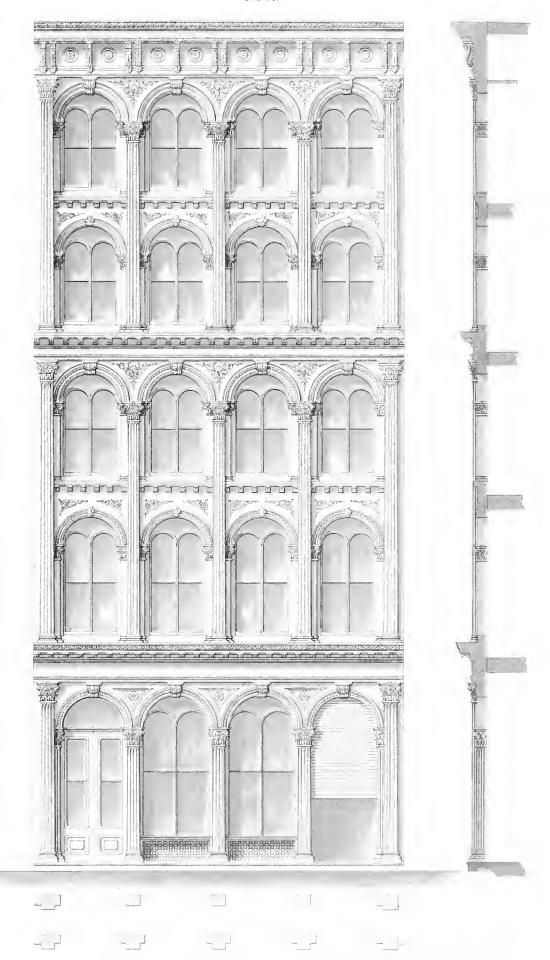
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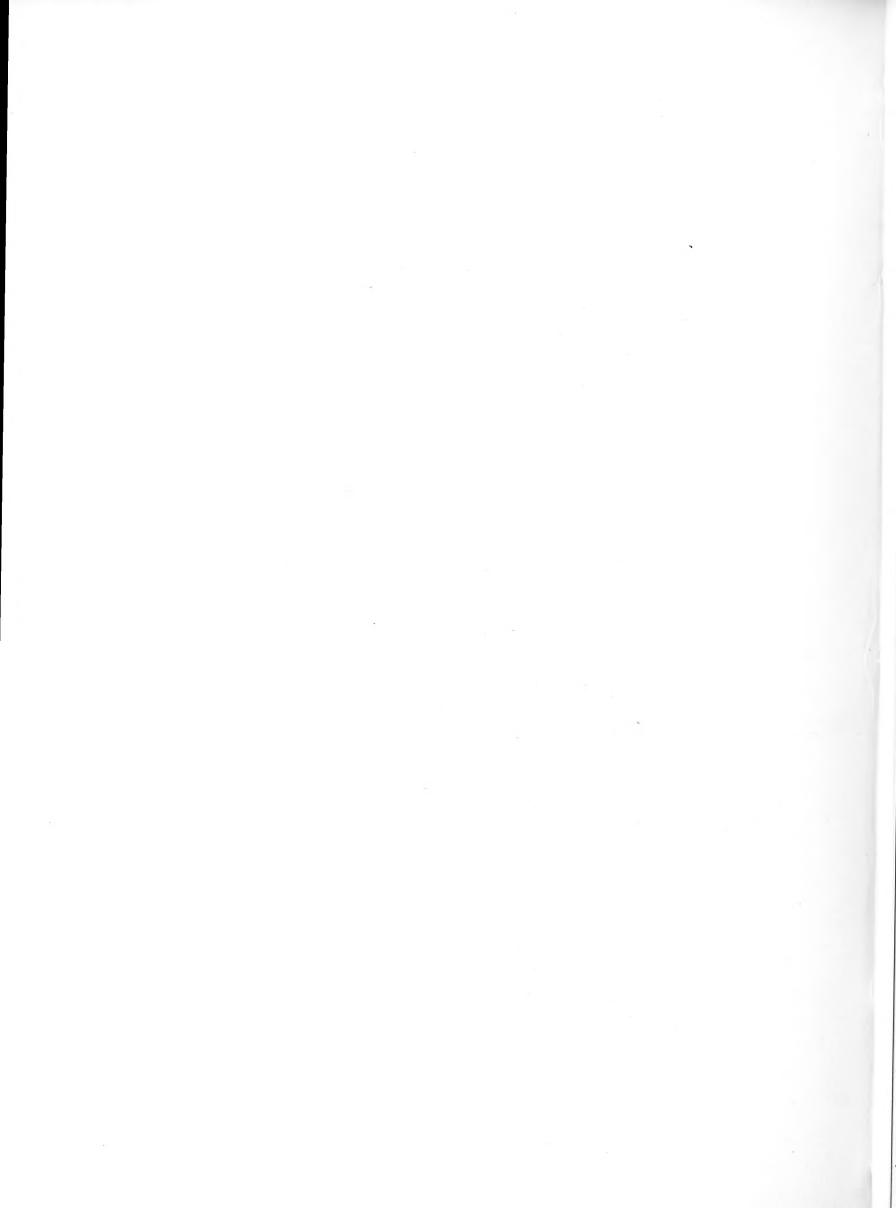


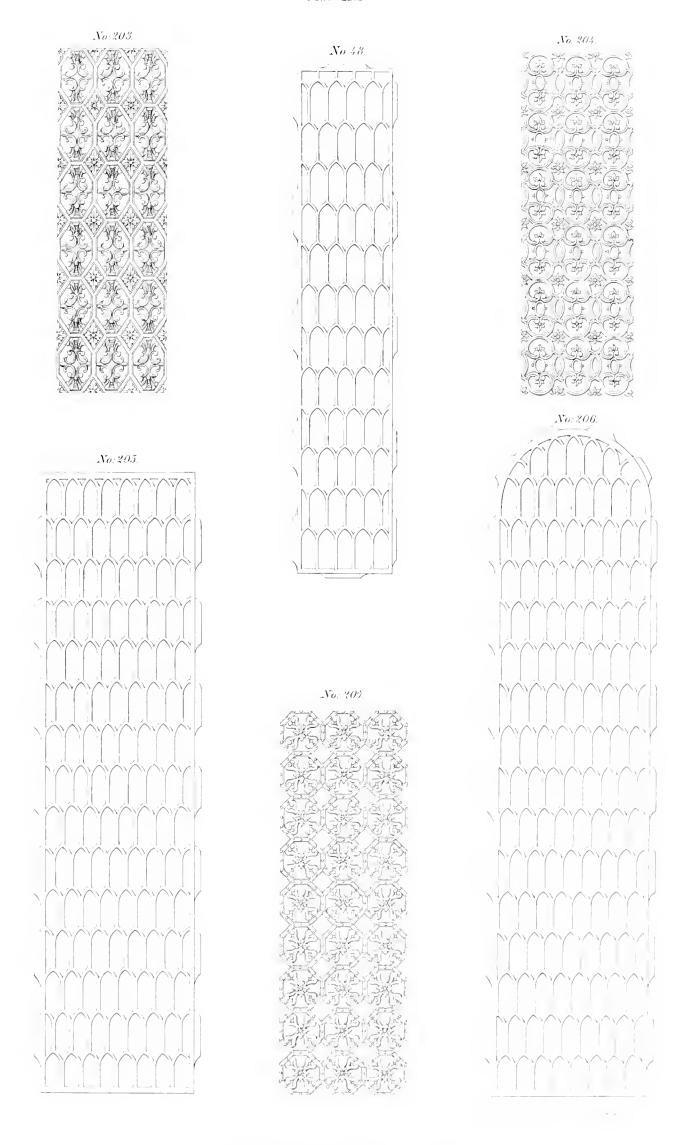
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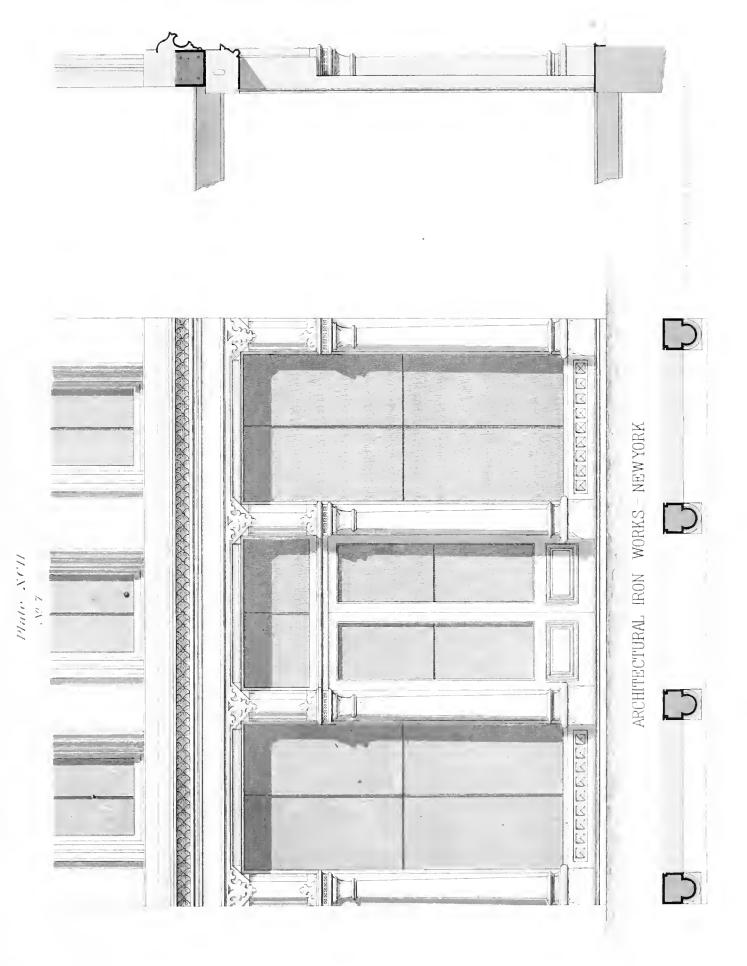


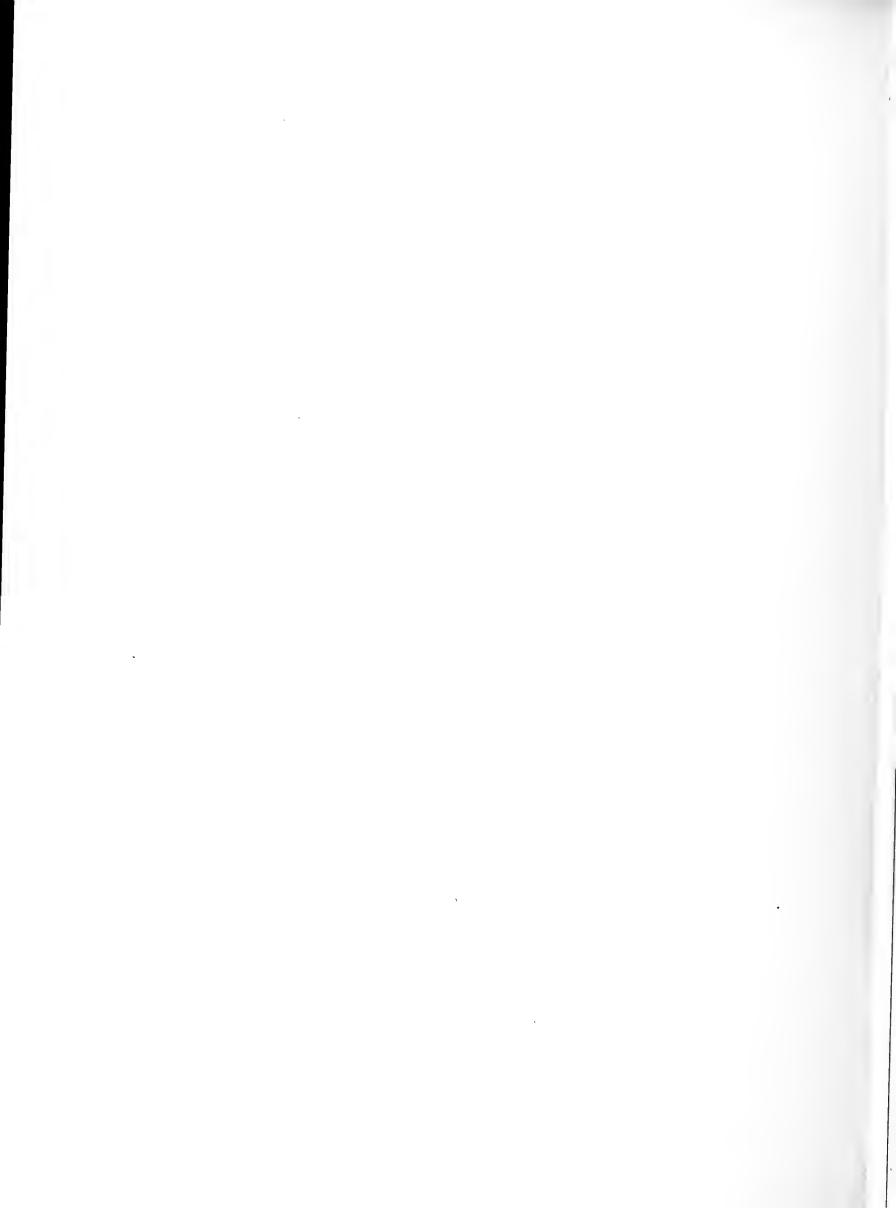
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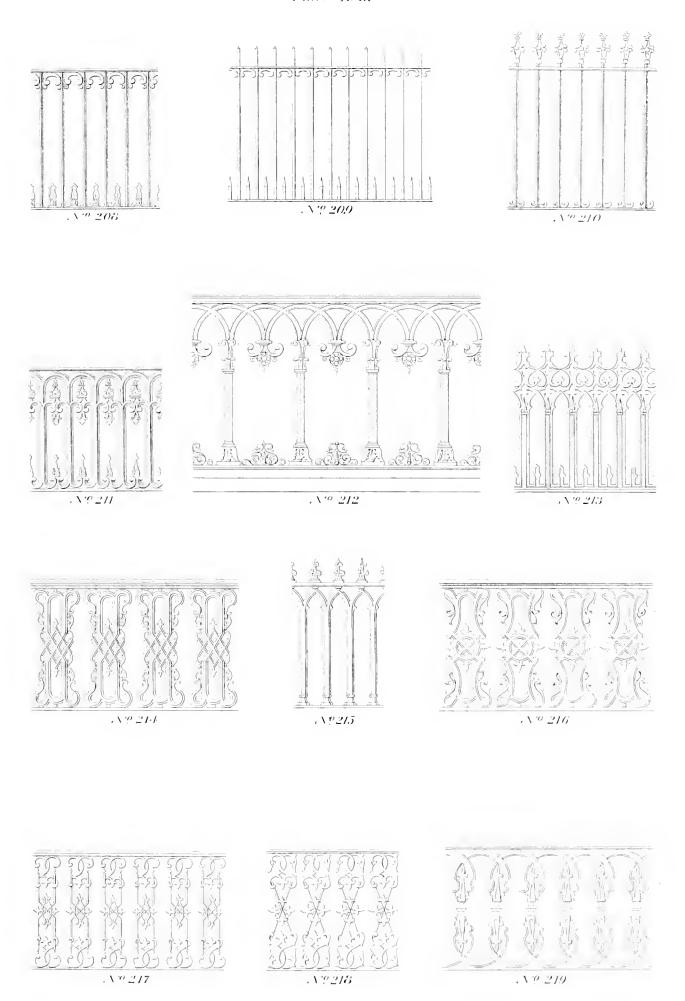






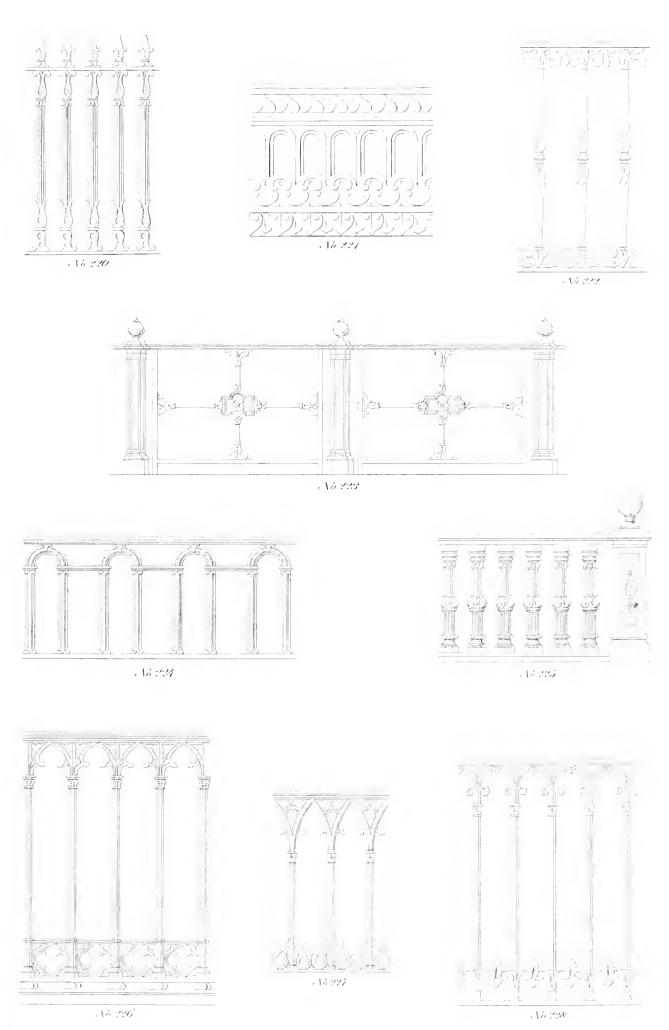






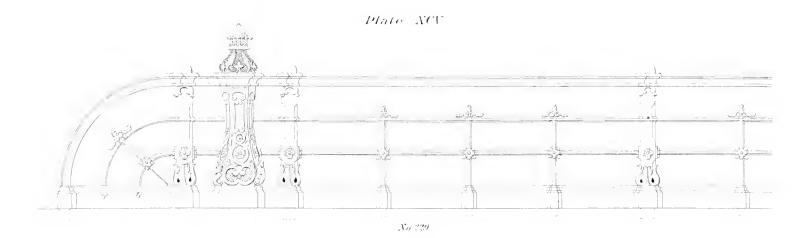
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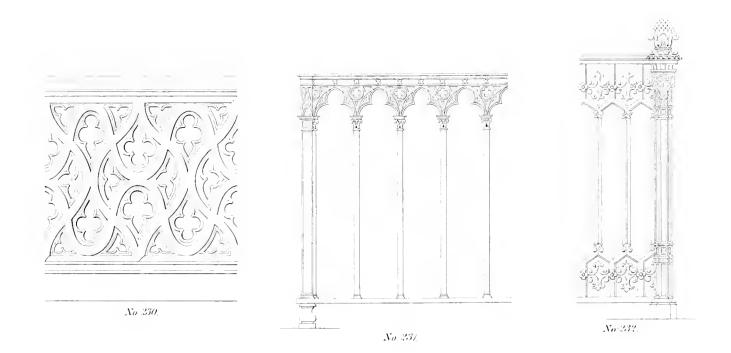
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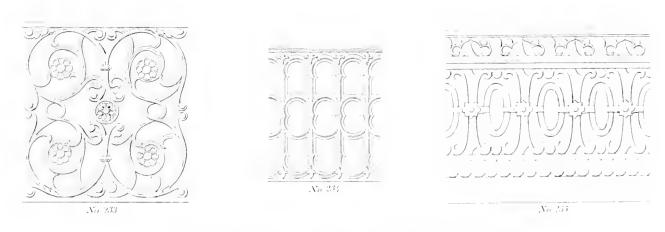


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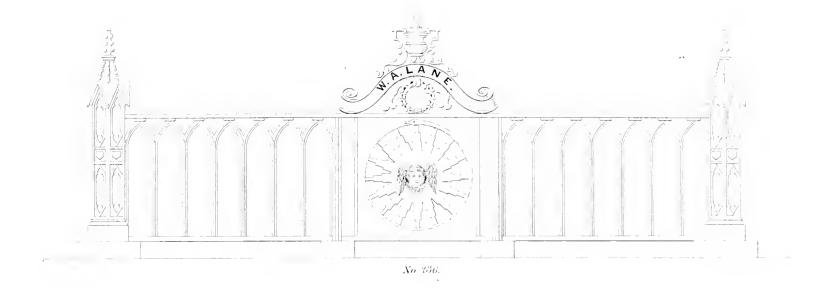
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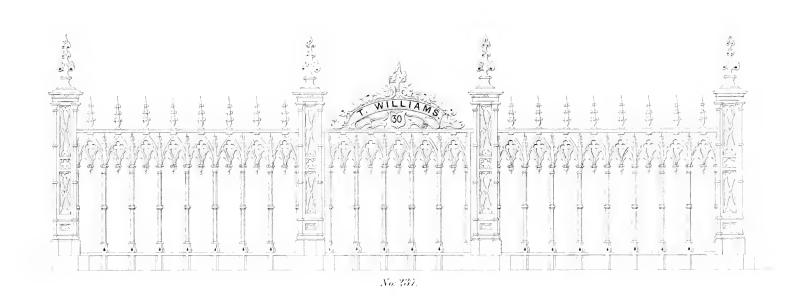


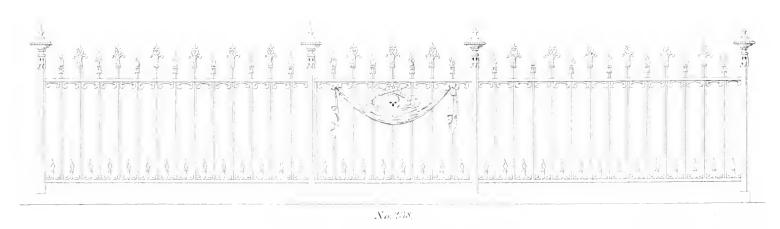






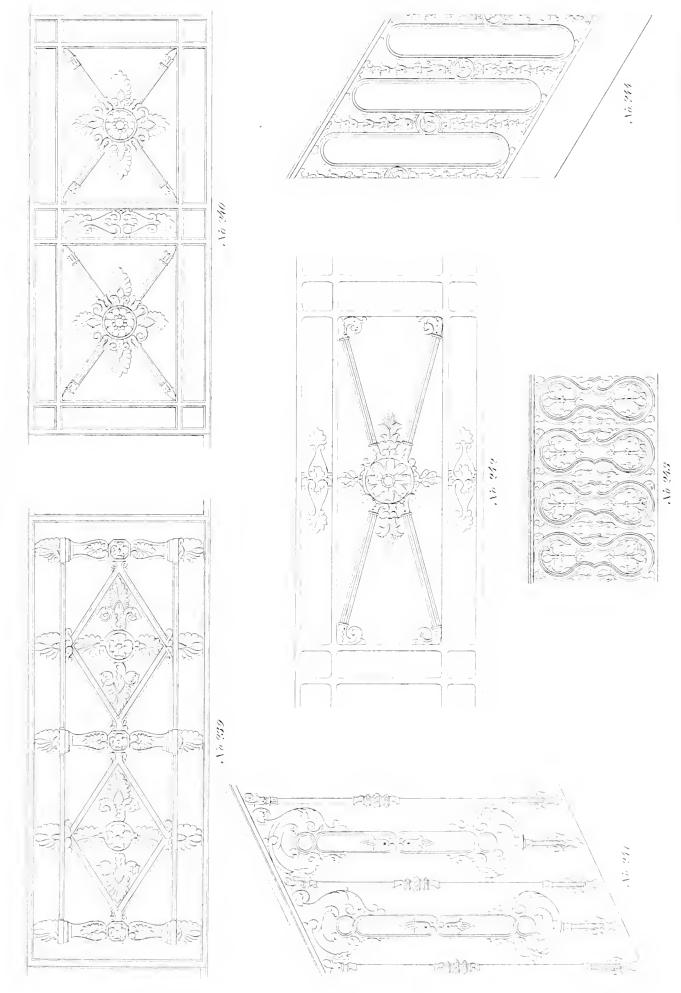






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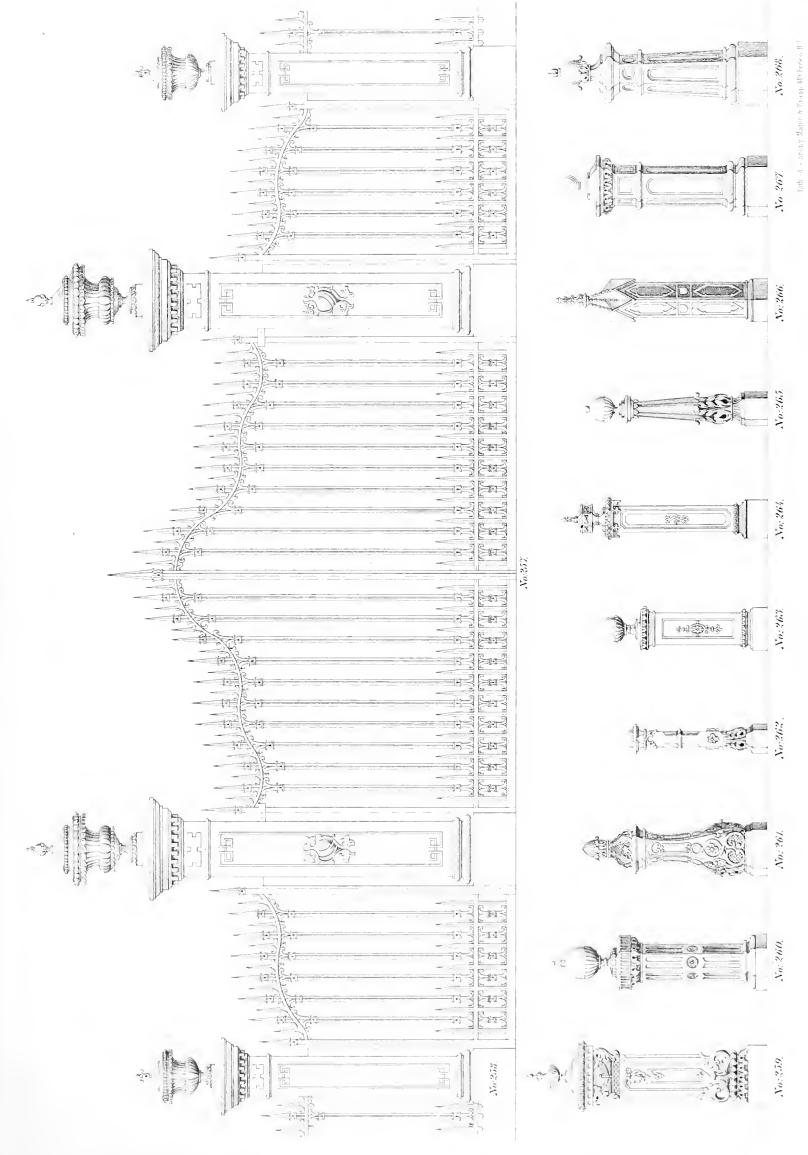


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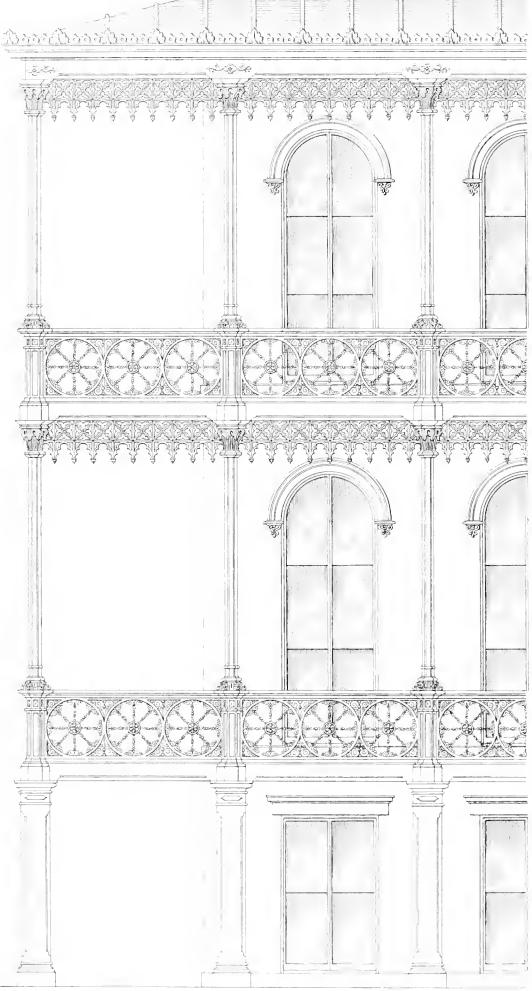
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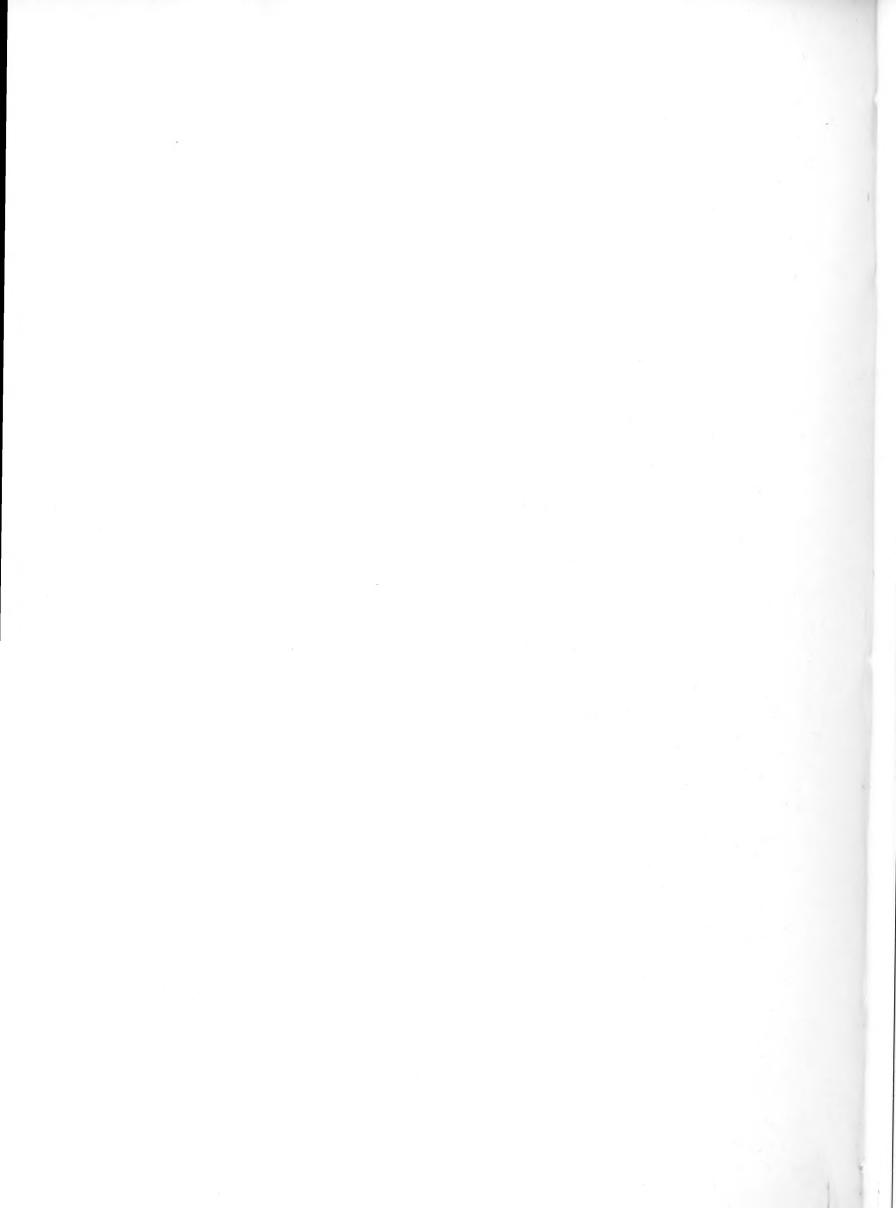


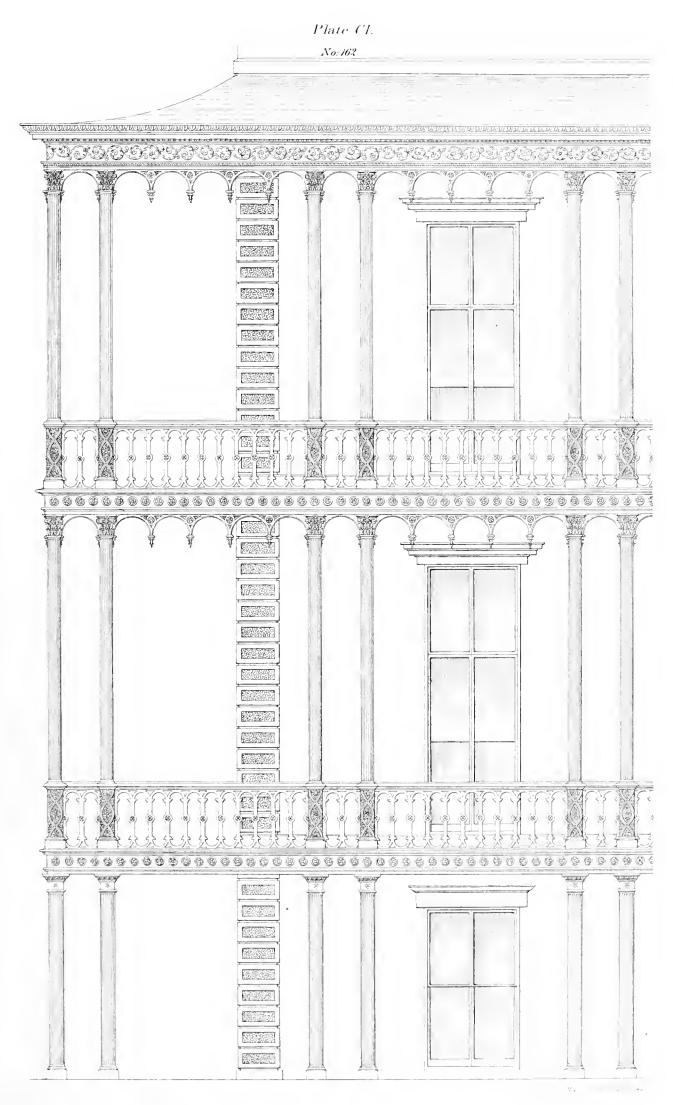


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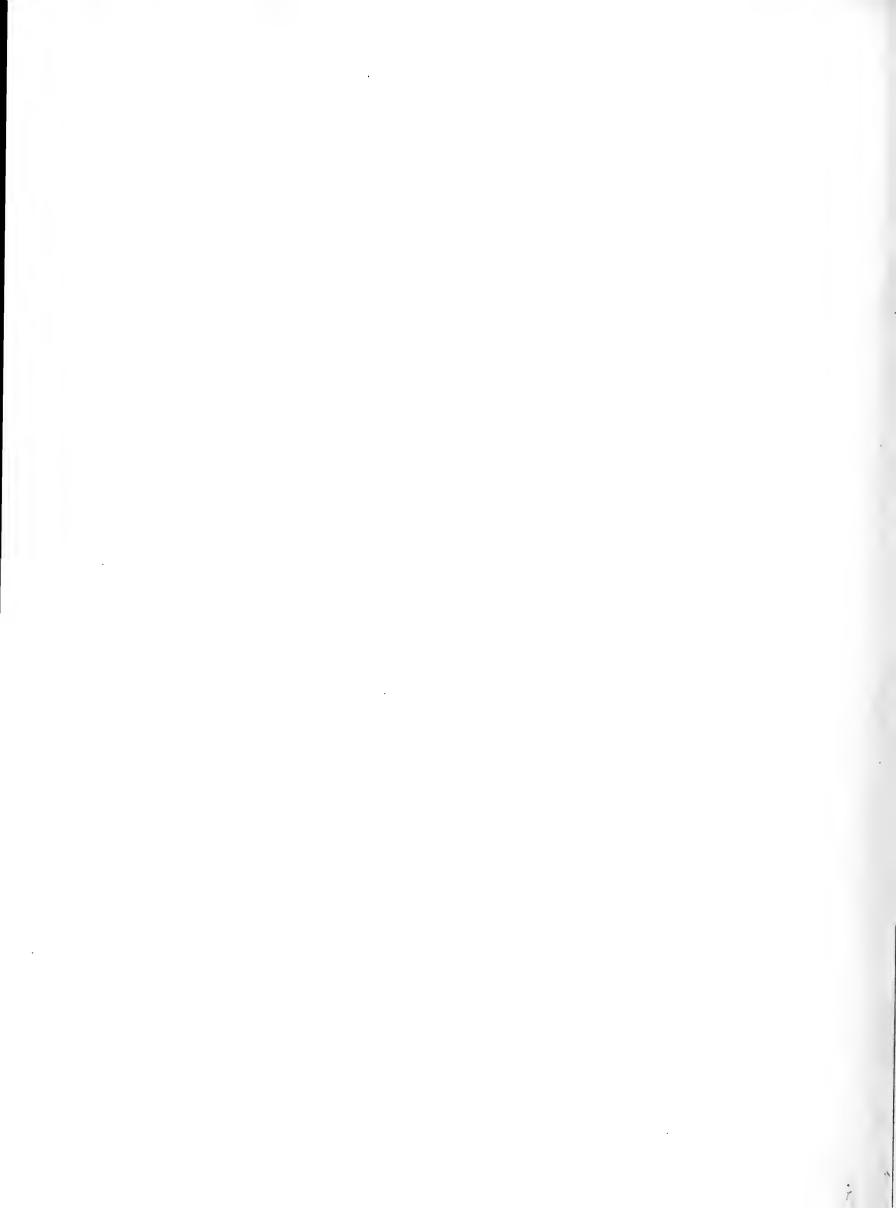
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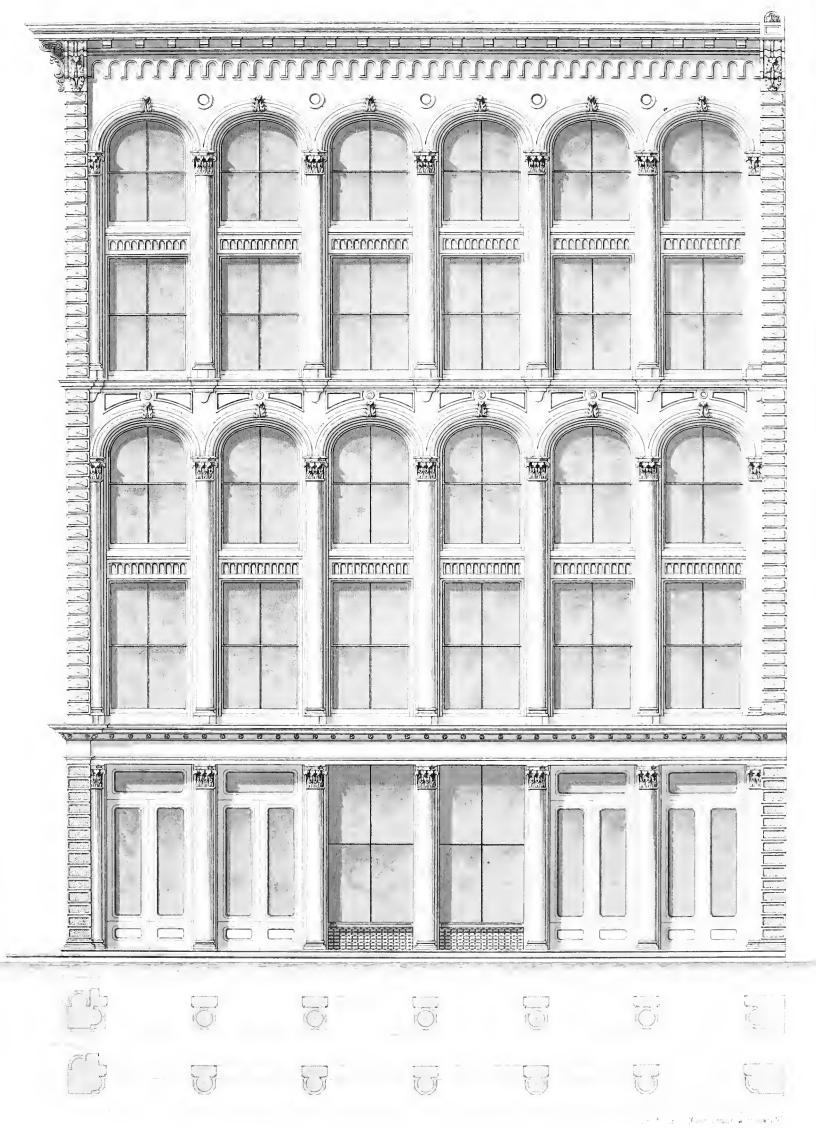






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